



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 189685**

**TO: Alton Pryor**  
**Location: REM 4A59/4C70**  
**Art Unit: 1616**  
**May 11, 2006**

**Case Serial Number: 10/510083**

**From: P. Sheppard**  
**Location: Remsen Building**  
**Phone: (571) 272-2529**

**sheppard@uspto.gov**

### **Search Notes**

FOR OFFICIAL USE ONLY



ACCESS DB # \_\_\_\_\_  
PLEASE PRINT CLEARLY

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Alton Pryor Examiner #: 74458 Date: 4/24/06  
Art Unit: 1616 Phone Number: 2-0621 Serial Number: 101510083  
Location (Bldg/Room#): Room 4A39 (Mailbox #): 415 PL Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Date: \_\_\_\_\_

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Search compds of formula I  
in claim 1

=> d his ful

(FILE 'HOME' ENTERED AT 14:44:45 ON 11 MAY 2006)

FILE 'REGISTRY' ENTERED AT 14:46:47 ON 11 MAY 2006

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L1          STR
L11      147655 SEA SSS FUL L1
L12          STR
L13          STR
L14          STR
L15          STR
L16      38403 SEA SUB=L11 SSS FUL L12
L17      8445 SEA SUB=L11 SSS FUL L13
L18      13078 SEA SUB=L11 SSS FUL L14
L19      3456 SEA SUB=L11 SSS FUL L15
L20      60852 SEA ABB=ON PLU=ON L16 OR L17 OR L18 OR L19
L21          STR
L22      57947 SEA SUB=L20 SSS FUL L21
L23          STR
L24      1581 SEA SUB=L20 SSS FUL L23
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FILE 'HCAPLUS' ENTERED AT 15:17:40 ON 11 MAY 2006

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L25      1344 SEA ABB=ON PLU=ON L24
L26      1156 SEA ABB=ON PLU=ON L25 AND PD=<MAY 3, 2002
L27      104130 SEA ABB=ON PLU=ON ("FUNGICIDES (L) AGROCHEM."/CV OR "FUNGICID
ES AND FUNGISTATS (L) AGROCHEM."/CV OR "AGRICULTURAL FUNGICIDES
"/CV OR "AGROCHEM. FUNGICIDES"/CV OR "AGROCHEMICAL FUNGICIDES"/
CV) OR ?FUNGICID?
L28      23 SEA ABB=ON PLU=ON L25(L) L27
L29      17 SEA ABB=ON PLU=ON L26 AND L28
D STAT QUE
D IBIB ABS HITSTR L29 1-17
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FILE 'REGISTRY' ENTERED AT 15:18:30 ON 11 MAY 2006

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L30      1043 SEA ABB=ON PLU=ON SURFACT? OR DILUENT?
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FILE 'HCAPLUS' ENTERED AT 15:19:27 ON 11 MAY 2006

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L31      342901 SEA ABB=ON PLU=ON L30 OR SURFACT? OR DILUENT?
L32      25 SEA ABB=ON PLU=ON L31 AND L26
L33      25 SEA ABB=ON PLU=ON L32 NOT L29
D STAT QUE L33
D IBIB ABS HITSTR L33 1-25
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FILE 'REGISTRY' ENTERED AT 15:21:33 ON 11 MAY 2006

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L34      56366 SEA ABB=ON PLU=ON L22 NOT L24
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FILE 'HCAPLUS' ENTERED AT 15:22:10 ON 11 MAY 2006

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L35      9951 SEA ABB=ON PLU=ON L34
L36      8551 SEA ABB=ON PLU=ON (L35 AND PD=<MAY 3, 2002) NOT (L29 OR L33)

L37      2241 SEA ABB=ON PLU=ON L36 AND L27
L38      31 SEA ABB=ON PLU=ON L37 AND L31
D STAT QUE L38
D IBIB ABS HITSTR L38 1-31
L39      50 SEA ABB=ON PLU=ON TSENG C/AU OR TSENG C P/AU OR "TSENG CHI
PING"/AU
L40      61 SEA ABB=ON PLU=ON L39 OR "CHI PING"/AU
L41      2 SEA ABB=ON PLU=ON L40 AND (L25 OR L35)
L42      2 SEA ABB=ON PLU=ON L41 NOT (L29 OR L33)
D STAT QUE NOS
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D IBIB ABS HITSTR L42 1-2

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 MAY 2006 HIGHEST RN 883788-13-4

DICTIONARY FILE UPDATES: 10 MAY 2006 HIGHEST RN 883788-13-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE HCAPLUS

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FILE COVERS 1907 - 11 May 2006 VOL 144 ISS 20

FILE LAST UPDATED: 10 May 2006 (20060510/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

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```
=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 15:17:40 ON 11 MAY 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)
```

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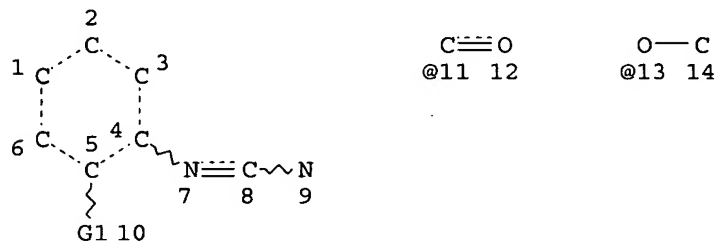
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FILE COVERS 1907 - 11 May 2006 VOL 144 ISS 20
FILE LAST UPDATED: 10 May 2006 (20060510/ED)
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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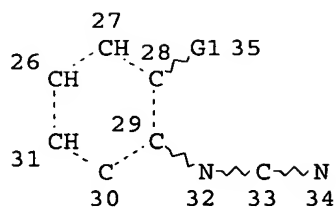
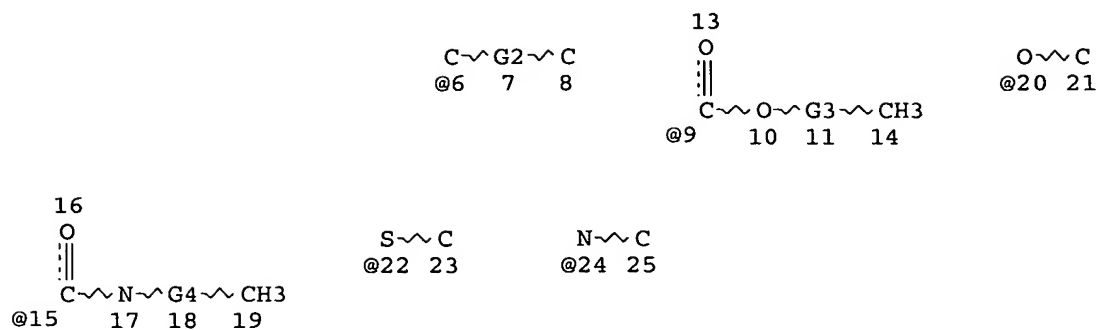
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=> d stat que
L1 STR
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:
RSPEC 1
NUMBER OF NODES IS 14
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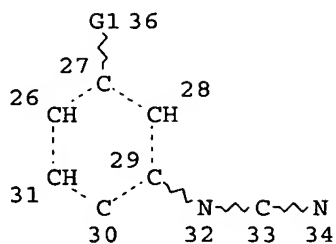
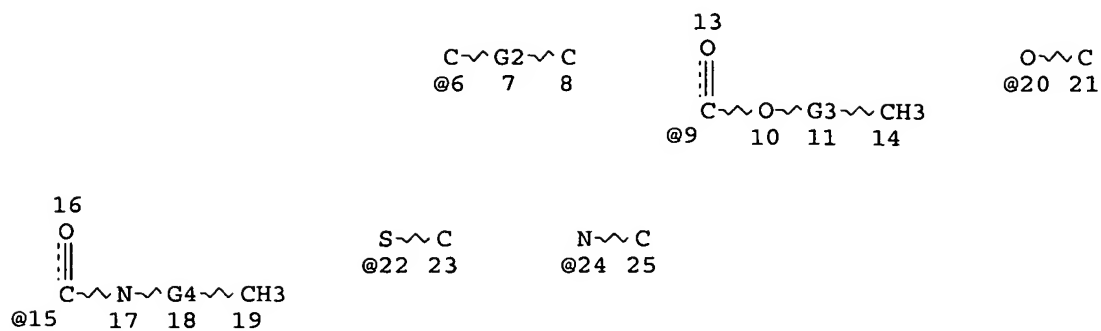
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STEREO ATTRIBUTES: NONE
L11 147655 SEA FILE=REGISTRY SSS FUL L1
L12 STR
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 REP G3=(1-8) C  
 REP G4=(3-9) C  
 NODE ATTRIBUTES:  
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GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 29

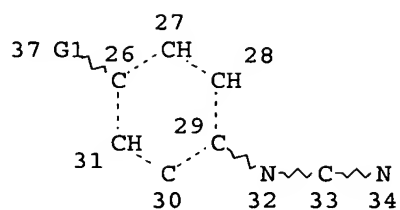
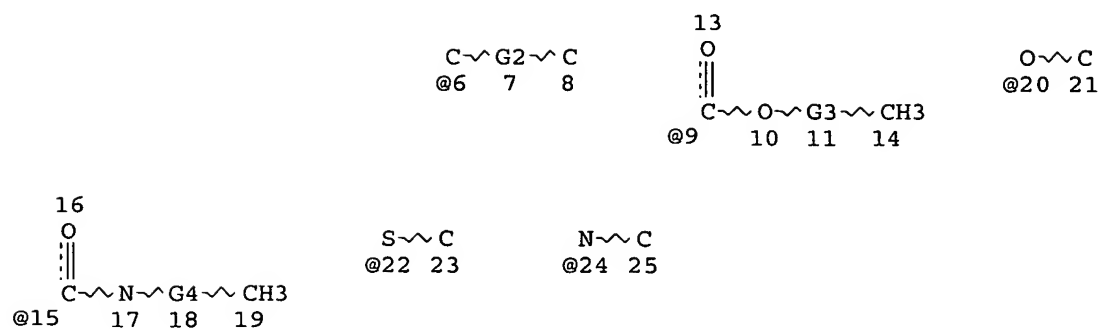
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 REP G3=(1-8) C  
 REP G4=(3-9) C  
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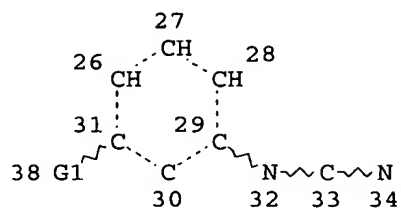
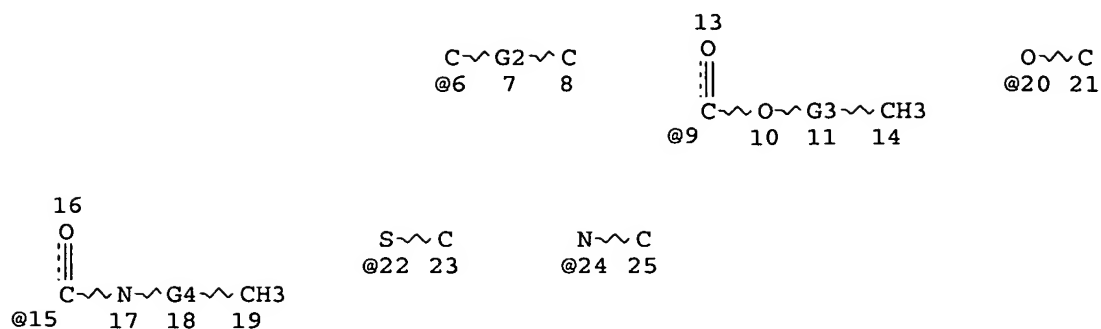
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 REP G2=(3-19) C  
 REP G3=(1-8) C  
 REP G4=(3-9) C  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 34  
 DEFAULT MLEVEL IS ATOM  
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GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE  
 L15 STR

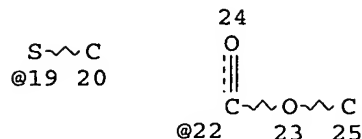
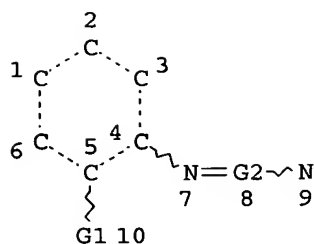


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 NODE ATTRIBUTES:  
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
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 NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

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 L19 3456 SEA FILE=REGISTRY SUB=L11 SSS FUL L15  
 L20 60852 SEA FILE=REGISTRY ABB=ON PLU=ON L16 OR L17 OR L18 OR L19  
 L23 STR



VAR G1=AK/X/CN/11/13/S/N/SI  
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STEREO ATTRIBUTES: NONE  
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 L25 1344 SEA FILE=HCAPLUS ABB=ON PLU=ON L24  
 L26 1156 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND PD=<MAY 3, 2002  
 L27 104130 SEA FILE=HCAPLUS ABB=ON PLU=ON ("FUNGICIDES (L) AGROCHEM."/CV  
             OR "FUNGICIDES AND FUNGISTATS (L) AGROCHEM."/CV OR "AGRICULTUR  
             AL FUNGICIDES"/CV OR "AGROCHEM. FUNGICIDES"/CV OR "AGROCHEMICAL  
             FUNGICIDES"/CV) OR ?FUNGICID?  
 L28 23 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 (L) L27  
 L29 17 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND L28

=>  
 =>

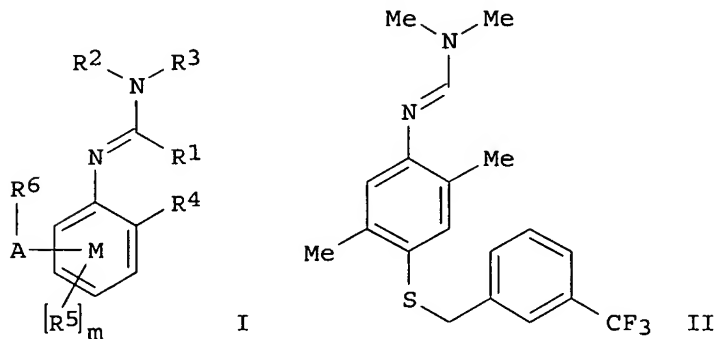
=> d ibib abs hitstr l29 1-17

L29 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:553541 HCAPLUS  
 DOCUMENT NUMBER: 133:163952  
 TITLE: Preparation of N2-phenylamidines as fungicides  
 INVENTOR(S): Charles, Mark David; Franke, Wilfried; Green, David  
             Eric; Hough, Thomas Lawley; Mitchell, Dale Robert;  
             Simpson, Donald James; Atherall, John Frederick  
 PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany  
 SOURCE: PCT Int. Appl., 76 pp.  
             CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English



FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046184	A1	20000810	WO 2000-GB345	20000204 <--
W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2360943	AA	20000810	CA 2000-2360943	20000204 <--
CA 2360943	C	20060418		
EP 1150944	A1	20011107	EP 2000-901791	20000204 <--
EP 1150944	B1	20030820		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TR 200102237	T2	20011221	TR 2001-200102237	20000204 <--
BR 2000009314	A	20020213	BR 2000-9314	20000204 <--
JP 2002536354	T2	20021029	JP 2000-597256	20000204
AT 247629	E	20030915	AT 2000-901791	20000204
AU 768156	B2	20031204	AU 2000-23088	20000204
PT 1150944	T	20031231	PT 2000-901791	20000204
ES 2200816	T3	20040316	ES 2000-901791	20000204
RU 2234504	C2	20040820	RU 2001-124664	20000204
US 6893650	B1	20050517	US 2001-890775	20000204
ZA 2001005845	A	20021016	ZA 2001-5845	20010716
HK 1043358	A1	20050506	HK 2002-105179	20020712
PRIORITY APPLN. INFO.:			GB 1999-2592	A 19990206
			WO 2000-GB345	W 20000204
OTHER SOURCE(S):			MARPAT 133:163952	
GI				



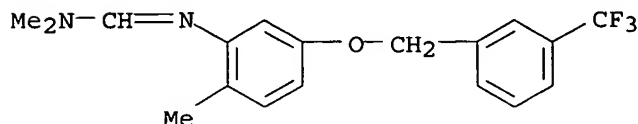
AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tplbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepared E.g., a 3-step preparation of the formamidine II which showed moderate to total control against Erysiphe graminis f. sp. Tritici at 500 ppm (w/v) or less, was given.

IT 287942-08-9P 287942-09-0P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of N2-phenylamidines as fungicides)

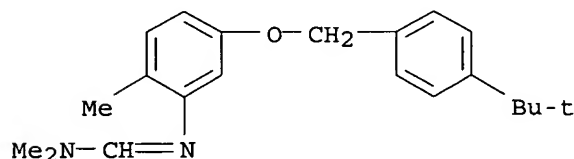
RN 287942-08-9 HCAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-5-[[3-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 287942-09-0 HCAPLUS

CN Methanimidamide, N'-[5-[[4-(1,1-dimethylethyl)phenyl]methoxy]-2-methylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:624266 HCAPLUS

DOCUMENT NUMBER: 121:224266

TITLE: Toxicity of mixtures of several miticides and plant nutrient supplement with fungicide triforine against kanzawa spider mite

AUTHOR(S): Wang, W. J.; Liu, T. S.

CORPORATE SOURCE: Taichung District Agricultural Improvement Station, Changhua, Taiwan

SOURCE: Zhiwu Baohu Xuehui Huikan (1993), 35(4), 285-95

CODEN: PLPBBH; ISSN: 0577-750X

DOCUMENT TYPE: Journal

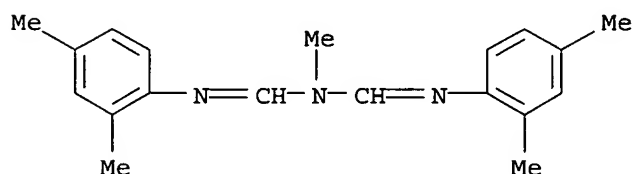
LANGUAGE: Chinese

AB This experiment first tested in the laboratory the effectiveness of mixts. of fungicide 18.6% triforine E.C. (1000-fold dilution) with 7 miticides and 2 plant nutrient supplements that were effective against the Kanzawa spider mites (*Tetranychus kanzawai* Kishida). Four mixts. with better activity were subsequently tested in the field. Laboratory study showed that increased or similar toxicity against Kanzawa spider mites was obtained, as compared with triforine alone, with mixts. of 18.6% triforine E.C. (1000-fold) with 2% abamectin E.C. (2000-fold), 20% amitraz E.C. (800-fold), 25% bromopropylate E.C. (500-fold), 25% oxythioquinox W.P. (500-fold), 2.8% bifenthrin E.C. (2000-fold), 68.1% propargite E.C. (2000-fold), 20% benzomate E.C. (1500-fold) and mixture of enzyme-sugar solution (200-fold). The mixture with plant nutrient supplement (Iou Lih Number 2, 250-fold) was less, but insignificantly, effective. In terms of toxicity against Kanzawa spider mites, mixing 18.6% triforine E.C. with the 8 pesticides did not produce any adverse effect. In the field test, mixing 18.6%

triforine E.C. (1000-fold) with 2% abamectin E.C. (2000-fold), 25% bromopropylate E.C. (500-fold) and 2.8% bifenthrin E.C. (2000-fold) gave excellent control rate (92% to 100%) of eggs, larvae, nymphs and adults of Kanzawa spider mites. In contrast with laboratory results, a mixture of triforine with 20% amitraz E.C. (800-fold) was quite ineffective against this spider mite. Thus, growers should avoid mixing these two pesticides.

IT 33089-61-1, Amitraz  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (toxicity of mixts. of miticides and plant nutrient supplement with triforine fungicide against kanzawa spider mite)

RN 33089-61-1 HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



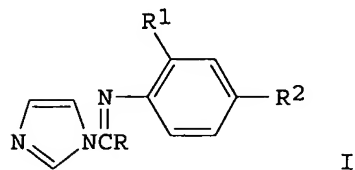
L29 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1989:419371 HCAPLUS  
 DOCUMENT NUMBER: 111:19371  
 TITLE: Quantitative structure-activity relationships, conformational analyses, and computer graphics study of triflumizole analogs, fungicidal N-(1-imidazol-1-ylalkylidene)anilines

AUTHOR(S): Nakayama, Akira; Ikura, Katsuyata; Katsuura, Kiyoshi; Hashimoto, Sho; Nakata, Akira

CORPORATE SOURCE: Odawara Res. Cent., Nippon Soda Co. Ltd., Odawara, 250-02, Japan

SOURCE: Nippon Noyaku Gakkaishi (1989), 14(1), 23-37  
 CODEN: NNGADV; ISSN: 0385-1559

DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB Fungicidal activity of Trifmine [triflumizole, (E)-4-chloro- $\alpha,\alpha,\alpha$ -trifluoro-N-(1-imidazol-1-yl-2-propoxyethylidene)-o-toluidine] and its analogs I (R = H, halo, OMe, alkyl, CF<sub>3</sub>; R<sub>1</sub> = Cl, H, alkyl, CF<sub>3</sub>; R<sub>2</sub> = alkyl, alkenyl, heterocycle, etc.) against cucumber powdery mildew was analyzed quant. by using physicochem. structural

parameters and regression anal. Steric, electronic, and hydrophobic effects of substituents on the benzene ring were important for the fungicidal activity. The effects of substituents on the imino carbon were expressed by steric and hydrophobic parameters as well as indicator variables for  $\alpha,\beta$ -unsatd. and  $\beta$ -oxy structures.

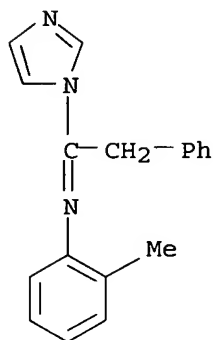
Conformational analyses and computer graphics were employed to study the mode of interaction of triflumizole with cytochrome P 450. An energy min. structure of triflumizole was found to fit the cavity of cytochrome P 450 so as to block the oxidation of lanosterol, the ergosterol precursor. The result of regression anal. and the computer graphics model suggested that steric and hydrophobic properties of imidazole derivs. are important to inhibit the biosynthesis of ergosterol by antagonizing cytochrome P 450 oxidase.

IT 65903-27-7P 65903-30-2P 121279-97-8P  
121279-98-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and **fungicidal** activity of, structure in relation to)

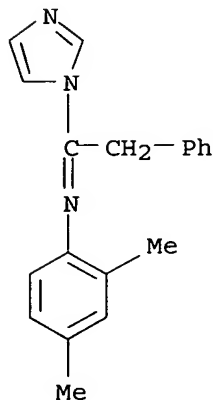
RN 65903-27-7 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-methylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



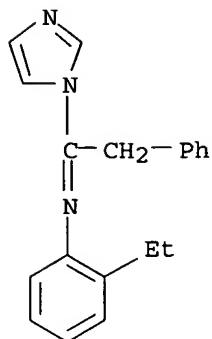
RN 65903-30-2 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2,4-dimethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



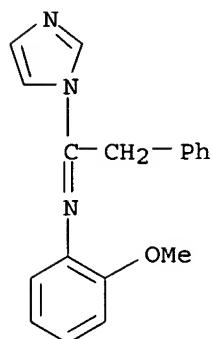
RN 121279-97-8 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-ethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



RN 121279-98-9 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-methoxyphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:119887 HCAPLUS

DOCUMENT NUMBER: 106:119887

TITLE: Preparation of [(2,6-xilylimino)methyl]imidazoles as agricultural fungicides

INVENTOR(S): Oyama, Hiroshi; Morita, Takeshi; Niitsuma, Shiro; Tsujimoto, Kazuyuki; Wada, Takuo

PATENT ASSIGNEE(S): Hokko Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

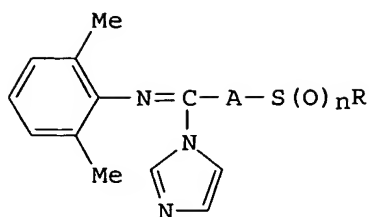
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

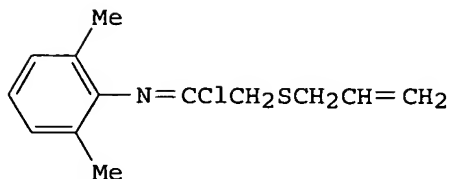
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61257976	A2	19861115	JP 1985-97855	19850510 <--
PRIORITY APPLN. INFO.:			JP 1985-97855	19850510
OTHER SOURCE(S):		CASREACT 106:119887		

GI



I



II

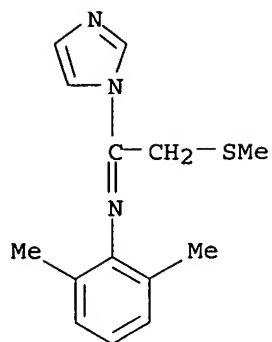
AB The title compds. (I; A = alkylene, alkenylene; R = alkyl, alkenyl, alkynyl, etc.; n = 0-2) were prepared Thus, formimidoyl chloride II was added with ice cooling to a mixture of imidazole, Et3N, and MeCN over 10 min and the resulting mixture refluxed for 30 min to give I (A = CH2, R = CH2:CHCH2, n = 0]. At 250 ppm I gave 100% inhibition of Fusarium moniliforme.

IT 107007-10-3P 107007-11-4P 107007-12-5P  
 107007-13-6P 107007-14-7P 107007-16-9P  
 107007-17-0P 107007-18-1P 107007-19-2P  
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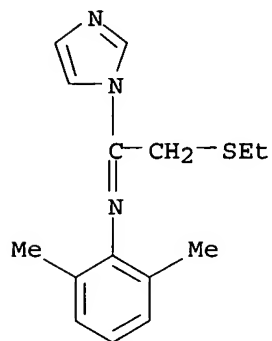
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agricultural fungicide)

RN 107007-10-3 HCAPLUS

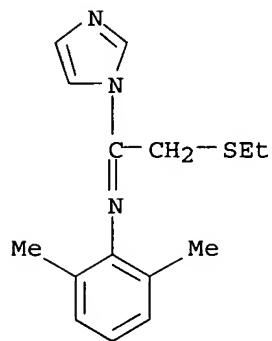
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 (CA INDEX NAME)



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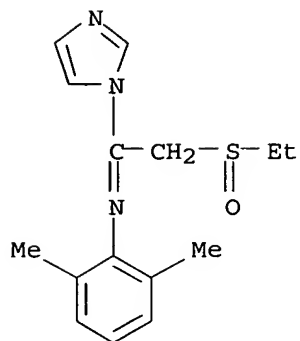
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● HCl

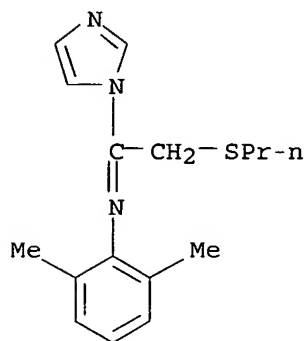
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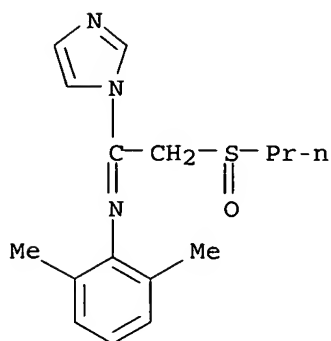
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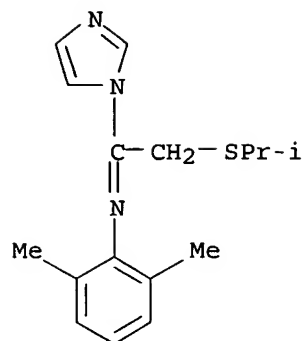
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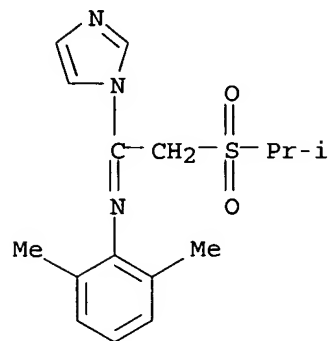
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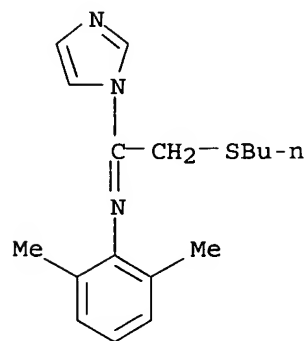
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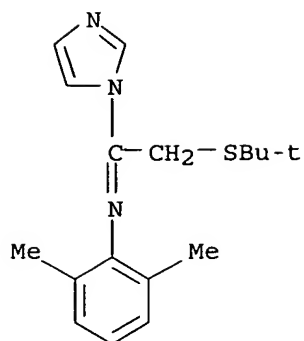
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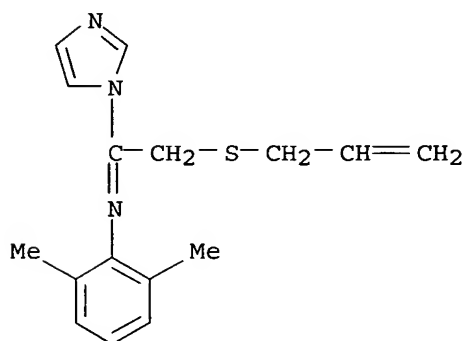


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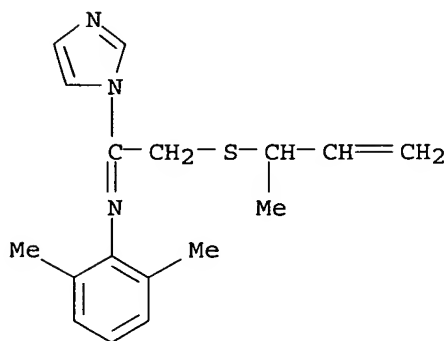
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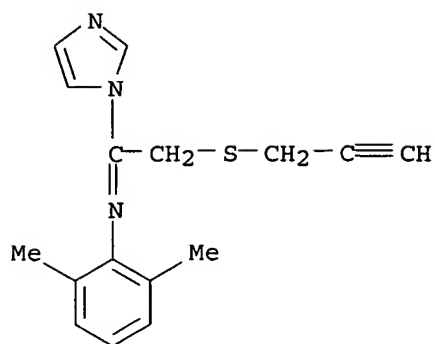
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RN 107007-22-7 HCAPLUS  
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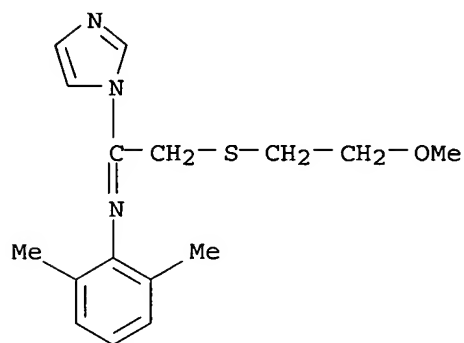


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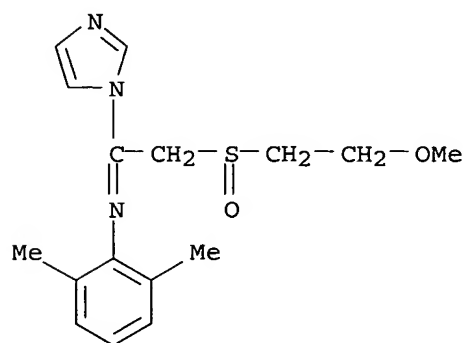
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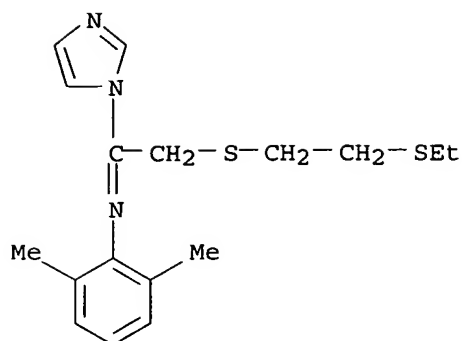
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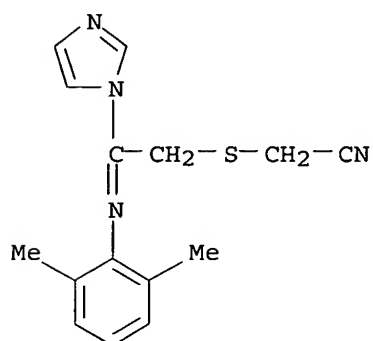
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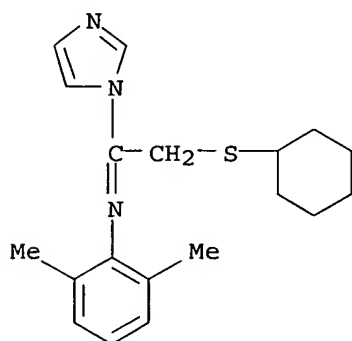
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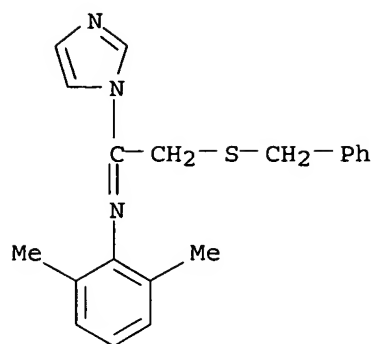
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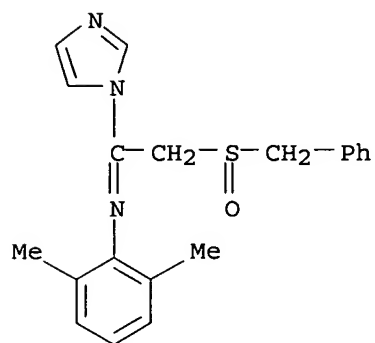
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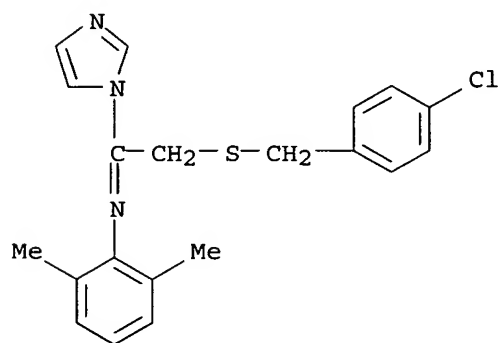
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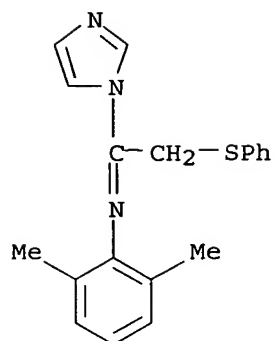
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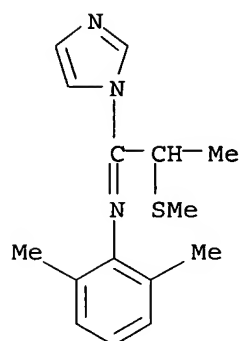


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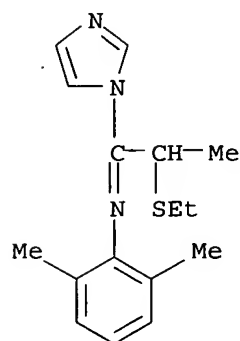
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RN 107007-34-1 HCAPLUS  
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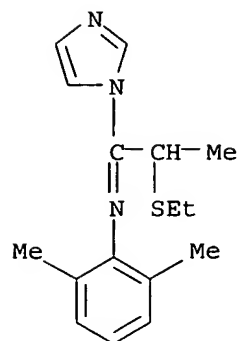


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CM 1

CRN 107007-34-1

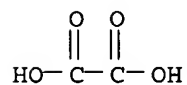
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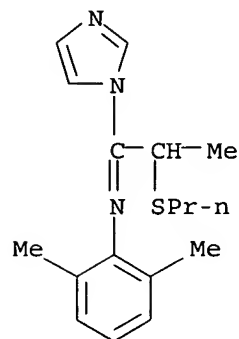
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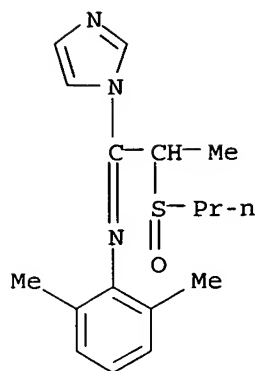
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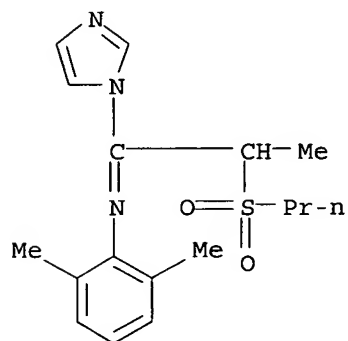


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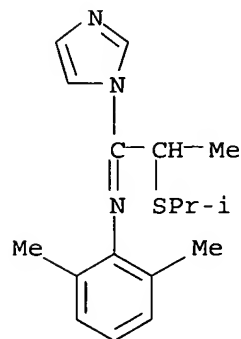
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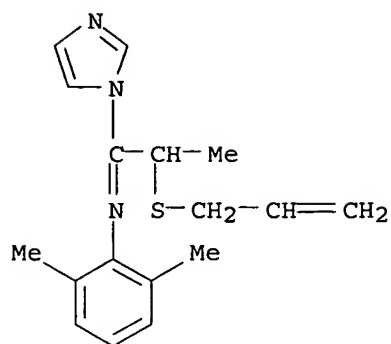


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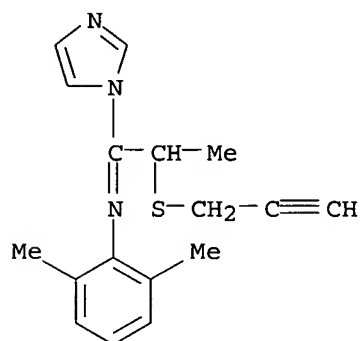
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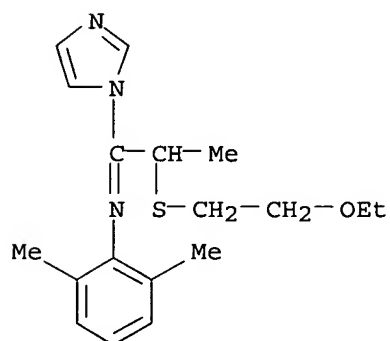
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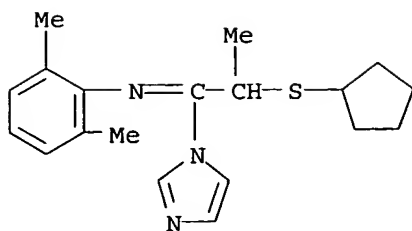
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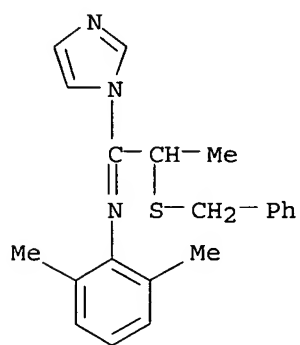


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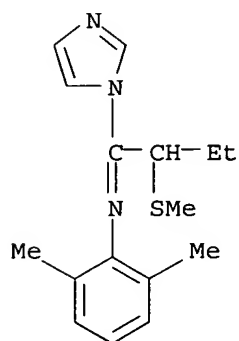
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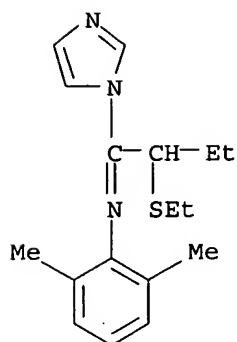
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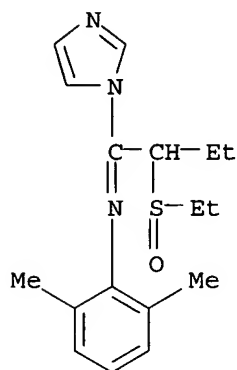


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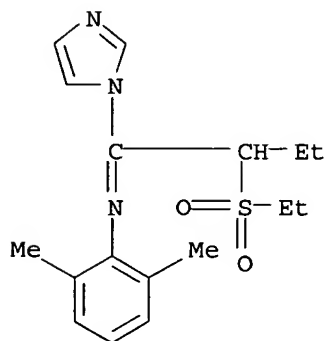
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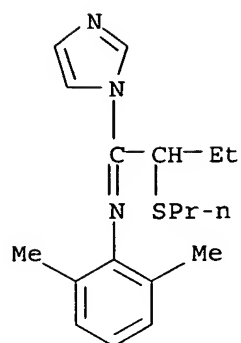
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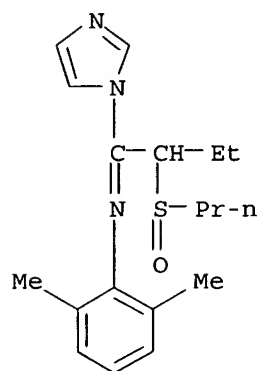
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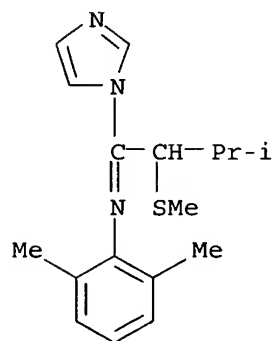
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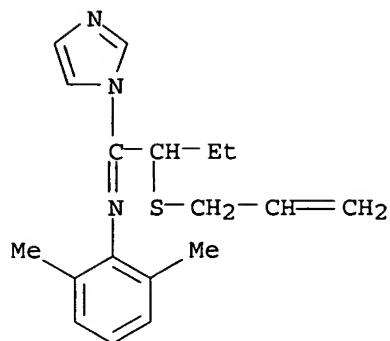
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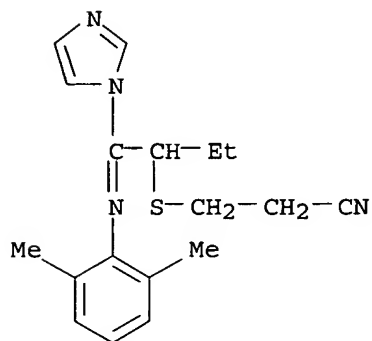
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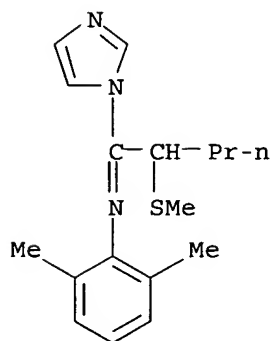
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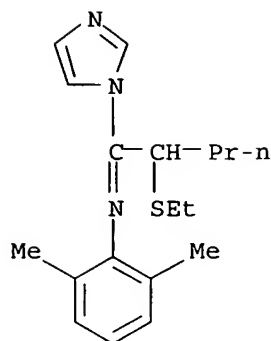
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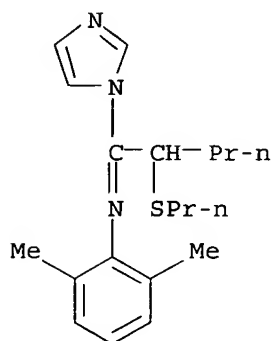
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CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)pentyl]- (9CI) (CA INDEX NAME)



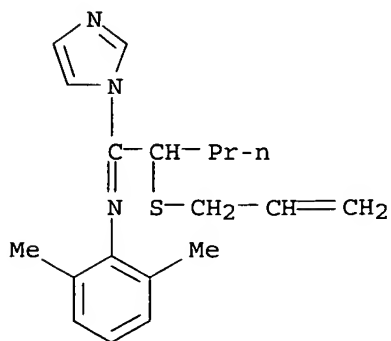
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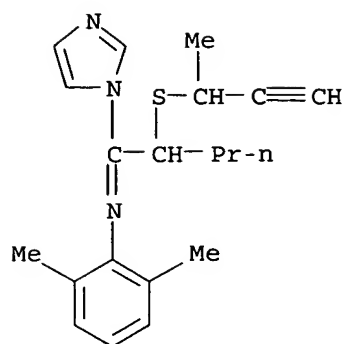
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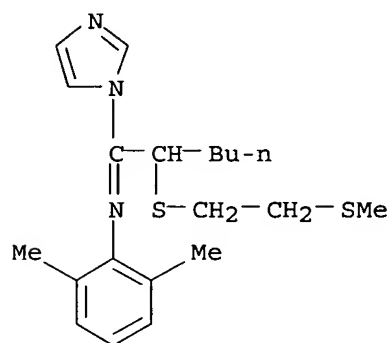
RN 107007-58-9 HCAPLUS

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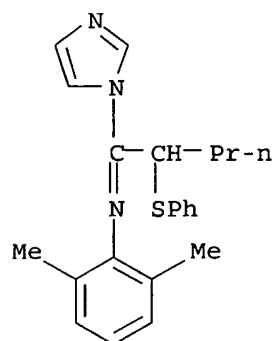
RN 107007-59-0 HCAPLUS

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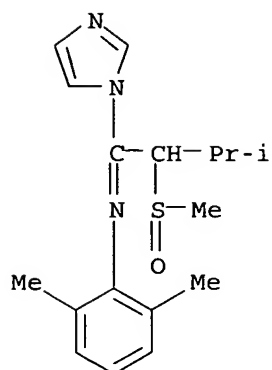
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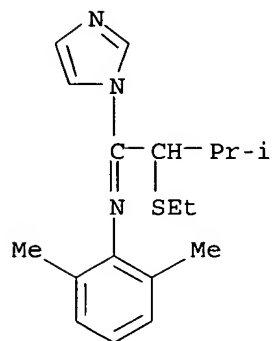
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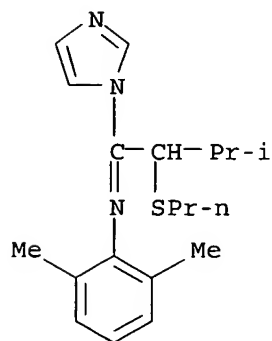
RN 107007-62-5 HCAPLUS

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RN 107007-63-6 HCAPLUS

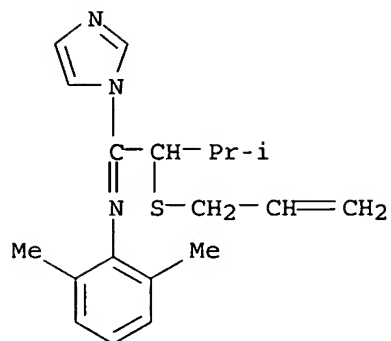
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RN 107007-64-7 HCAPLUS

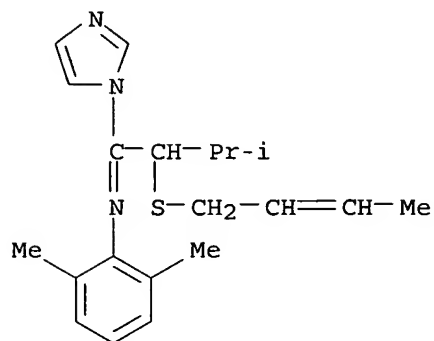
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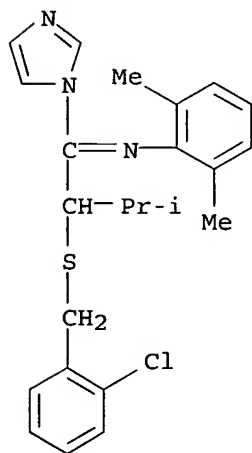
RN 107007-65-8 HCAPLUS

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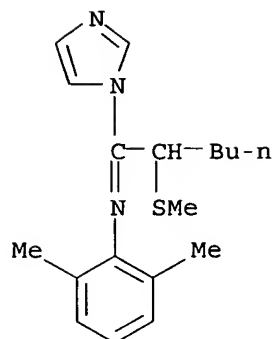
RN 107007-66-9 HCAPLUS

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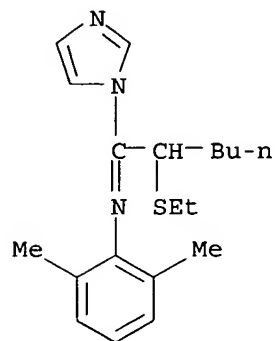


RN 107007-67-0 HCAPLUS

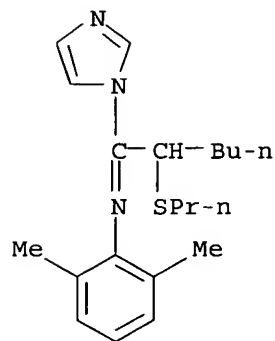
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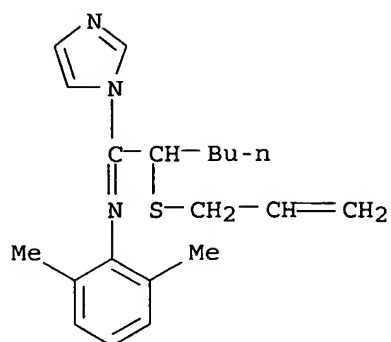
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 (CA INDEX NAME)



RN 107007-69-2 HCAPLUS  
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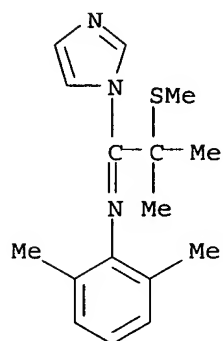


RN 107007-70-5 HCAPLUS  
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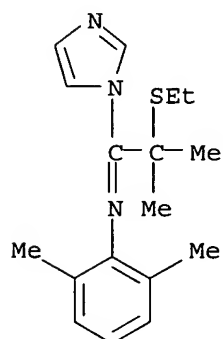
RN 107007-71-6 HCAPLUS

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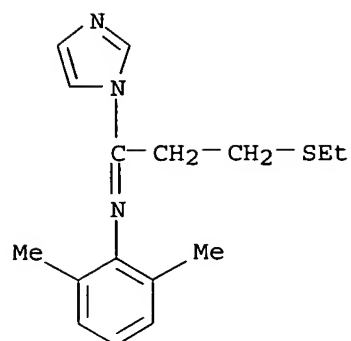
RN 107007-72-7 HCAPLUS

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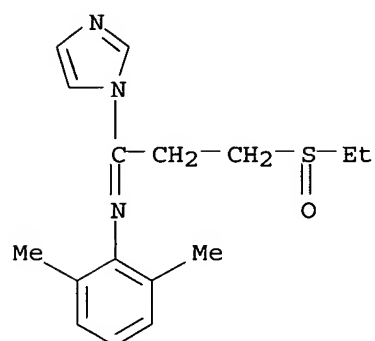
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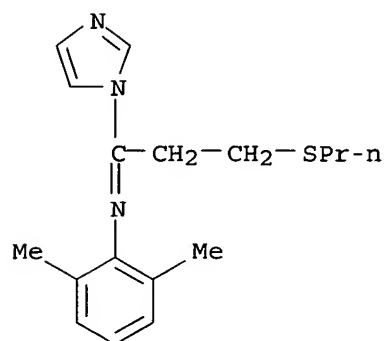
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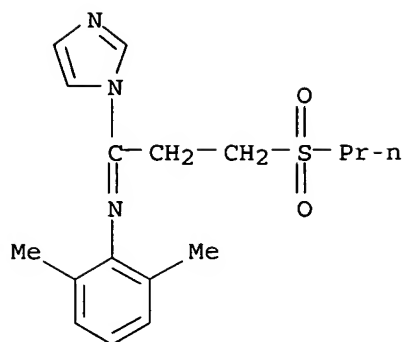
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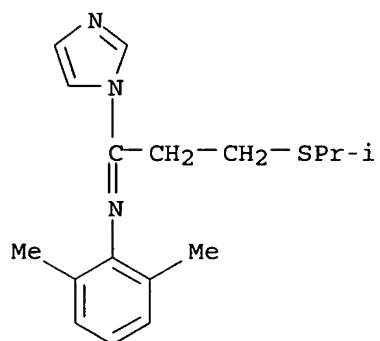
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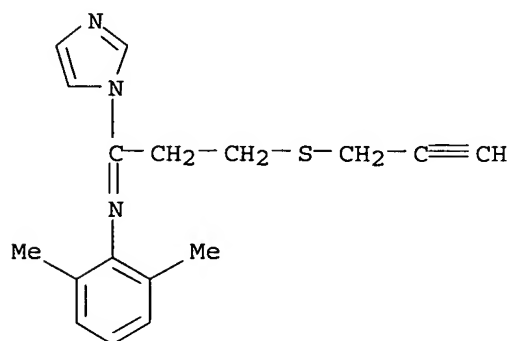
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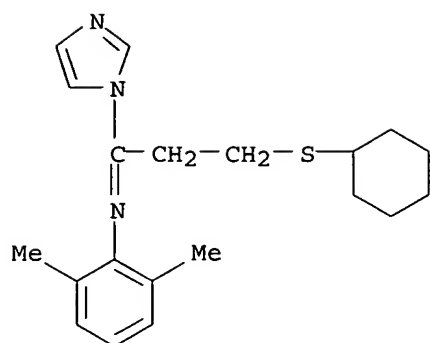
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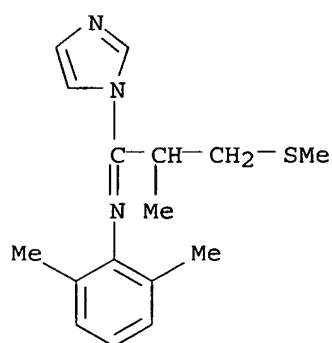
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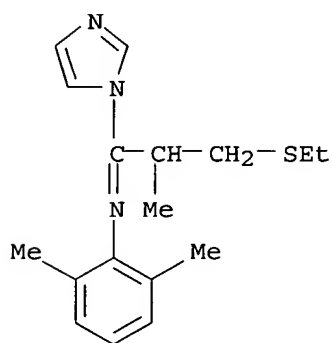
RN 107007-80-7 HCAPLUS

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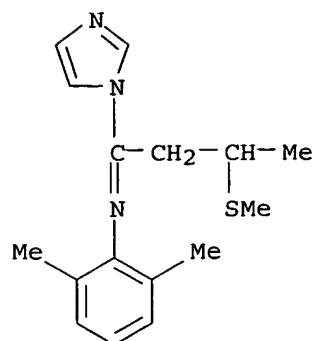
RN 107007-81-8 HCAPLUS

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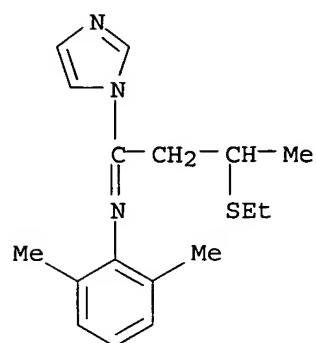


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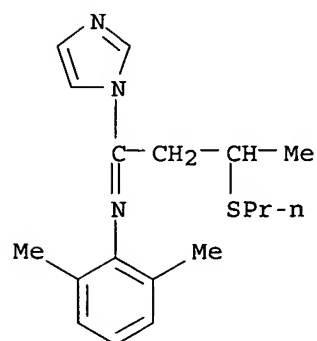
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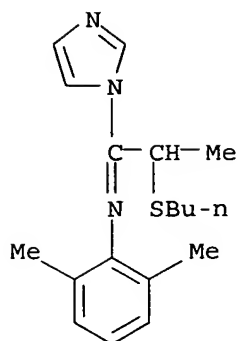
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 (CA INDEX NAME)



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 (CA INDEX NAME)

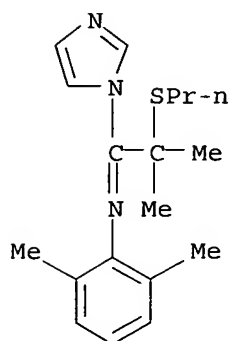


RN 107032-50-8 HCAPLUS  
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 (CA INDEX NAME)



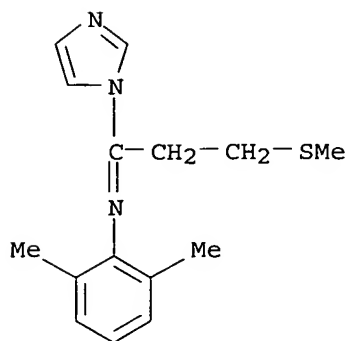
RN 107032-51-9 HCAPLUS

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RN 107032-52-0 HCAPLUS

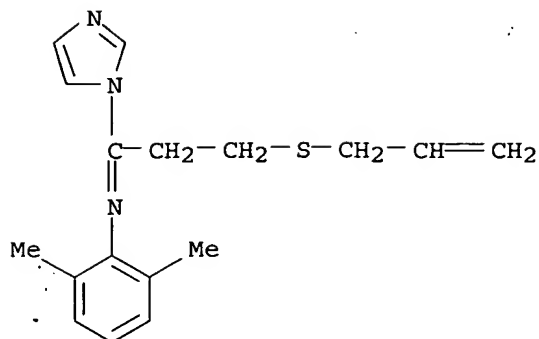
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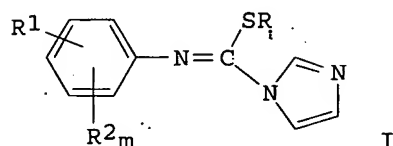
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(2-propenylthio)propyl]- (9CI) (CA INDEX NAME)





L29 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1986:186415 HCAPLUS  
 DOCUMENT NUMBER: 104:186415  
 TITLE: Imidazole derivatives as nonmedical fungicides  
 INVENTOR(S): Nakanishi, Hiroyuki; Kosakata, Takeshi; Nishimura, Akira; Myagi, Yukio; Sugano, Hideo  
 PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60255775	A2	19851217	JP 1984-109824	19840530
PRIORITY APPLN. INFO.: GI			JP 1984-109824	19840530



AB Fungicidal imidazole derivs. I [R = C1-8 alkyl, cyanoalkyl, alkenyl, haloalkenyl, alkynyl, alkoxyalkyl, alkoxycarbonylalkyl, acyloxyalkyl, (halogen-substituted) phenoxyalkyl; R1 = lower haloalkyl, lower alkoxy, lower alkylthio, lower haloalkoxy, lower haloalkylthio, alkenyloxy, alkynyloxy, alkoxycarbonyl, OPh, OCH2Ph; R2 = H, halo, lower alkyl, lower alkoxy; R1R2 may be an alklenedioxy group; m = 1, 2] were prepared. Thus, a solution of 0.87 g 2,4-dichloro-5-isopropoxyphenyl isothiocyanate and 0.25 g imidazole in 10 mL Me2SO was mixed with 0.15 g powdered NaOH and the resulting mixture treated with 0.6 g Me2CHI for 2 h at room temperature to give 51% I (R = CHMe2, R1 = 5-OCHMe2, R2m = 2,4-Cl2), which was effective at 200 ppm against barley pathogen, Erysiphe graminis.

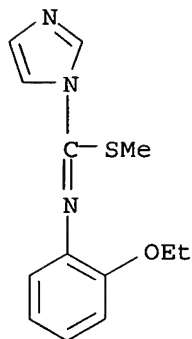
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 101856-28-4P 101856-29-5P 101856-30-8P  
 101856-33-1P 101856-35-3P 101856-36-4P

101856-40-0P 101856-41-1P 101856-43-3P  
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 101856-79-5P 101856-80-8P 101856-81-9P  
 101856-82-0P 101856-83-1P 101856-84-2P  
 101856-87-5P 101856-89-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of, as fungicide)

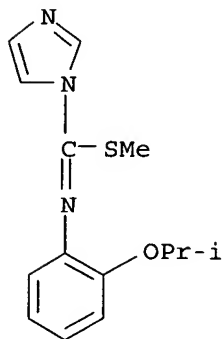
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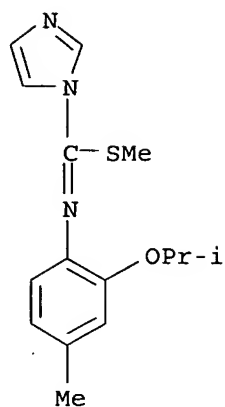
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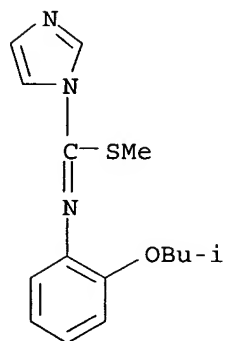
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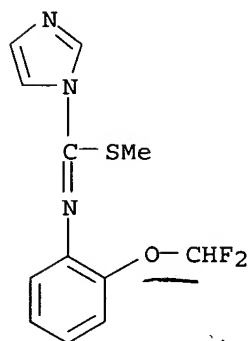
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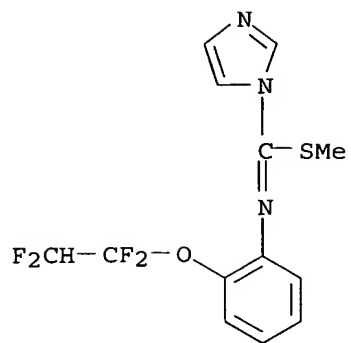
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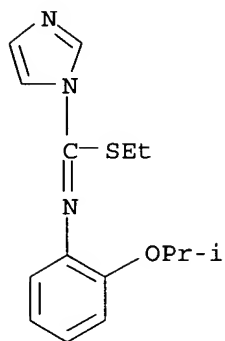
RN 101856-26-2 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1,1,2,2-tetrafluoroethoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



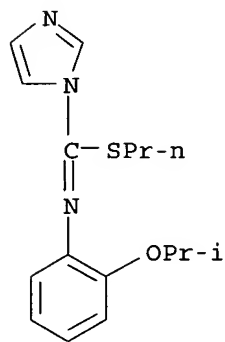
RN 101856-28-4 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



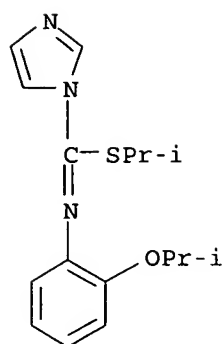
RN 101856-29-5 HCAPLUS

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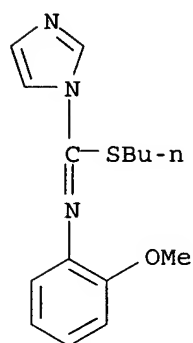


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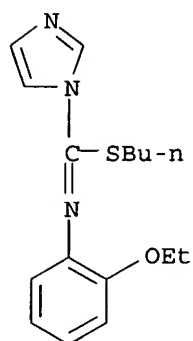
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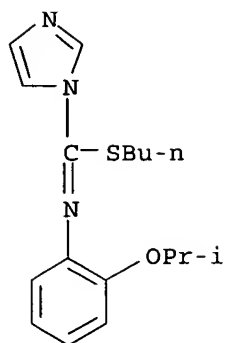
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 (9CI) (CA INDEX NAME)



RN 101856-35-3 HCAPLUS  
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 (9CI) (CA INDEX NAME)

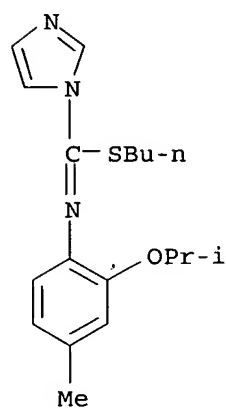


RN 101856-36-4 HCAPLUS  
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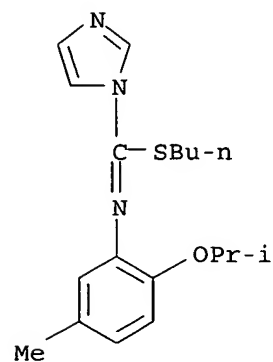
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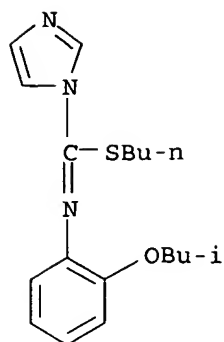
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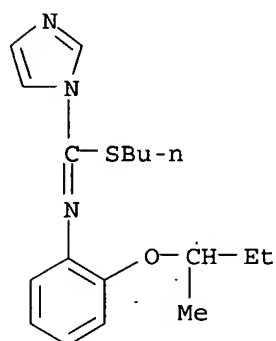
RN 101856-43-3 HCAPLUS

CN 1H-Imidazole-1-carboximidithioic acid, N-[2-(2-methylpropoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



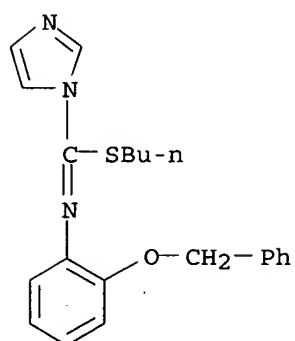
RN 101856-44-4 HCAPLUS

CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylpropoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



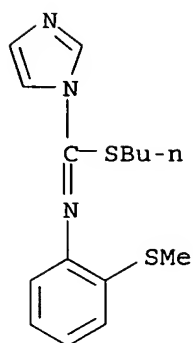
RN 101856-46-6 HCAPLUS

CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(phenylmethoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



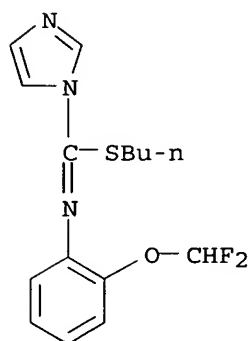
RN 101856-47-7 HCAPLUS

CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(methylthio)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



RN 101856-49-9 HCAPLUS

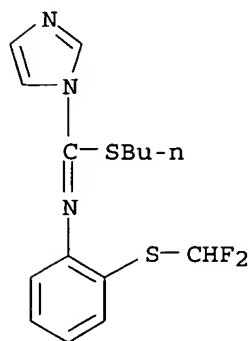
CN 1H-Imidazole-1-carboximidithioic acid, N-[2-(difluoromethoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



*Same as  
101856-50-2*

RN 101856-50-2 HCAPLUS

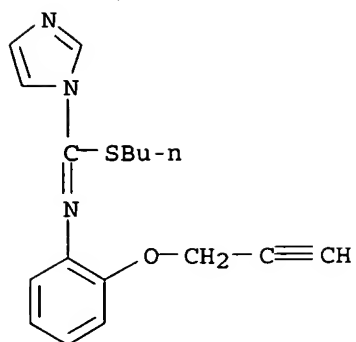
CN 1H-Imidazole-1-carboximidithioic acid, N-[2-[(difluoromethyl)thio]phenyl]-, butyl ester (9CI) (CA INDEX NAME)



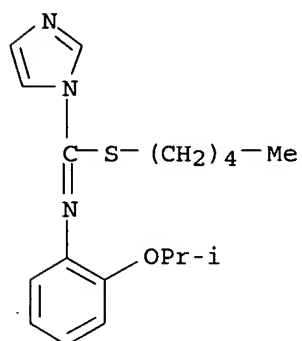
RN 101856-51-3 HCAPLUS

CN 1H-Imidazole-1-carboximidithioic acid, N-[2-(2-propynyloxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)

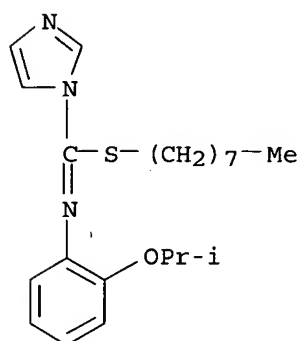




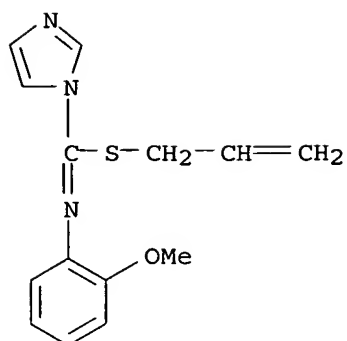
RN 101856-53-5 HCAPLUS  
 CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, pentyl ester (9CI) (CA INDEX NAME)



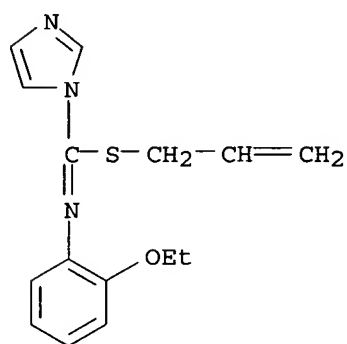
RN 101856-56-8 HCAPLUS  
 CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, octyl ester (9CI) (CA INDEX NAME)



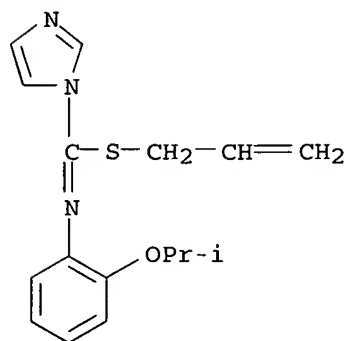
RN 101856-57-9 HCAPLUS  
 CN 1H-Imidazole-1-carboximidodithioic acid, N-(2-methoxyphenyl)-, 2-propenyl ester (9CI) (CA INDEX NAME)



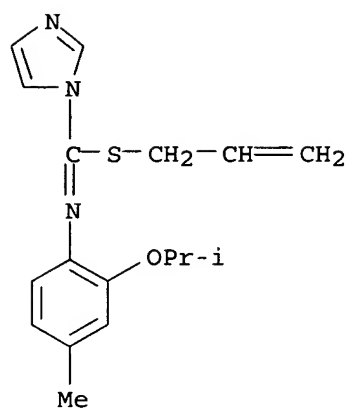
RN 101856-59-1 HCAPLUS  
 CN 1H-Imidazole-1-carboximidodithioic acid, N-(2-ethoxyphenyl)-, 2-propenyl ester (9CI) (CA INDEX NAME)



RN 101856-60-4 HCAPLUS  
 CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)

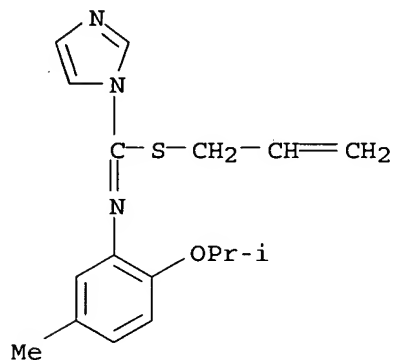


RN 101856-64-8 HCAPLUS  
 CN 1H-Imidazole-1-carboximidodithioic acid, N-[4-methyl-2-(1-methylethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



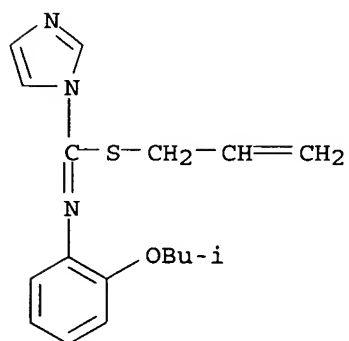
RN 101856-65-9 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[5-methyl-2-(1-methylethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



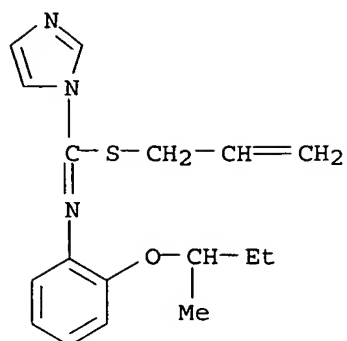
RN 101856-66-0 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(2-methylpropoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



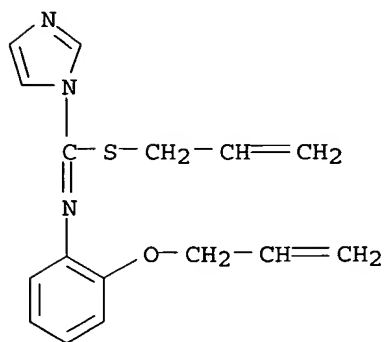
RN 101856-67-1 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylpropoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



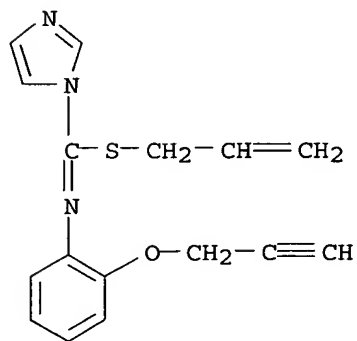
RN 101856-68-2 HCAPLUS

CN 1H-Imidazole-1-carboximidithioic acid, N-[2-(2-propenyloxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



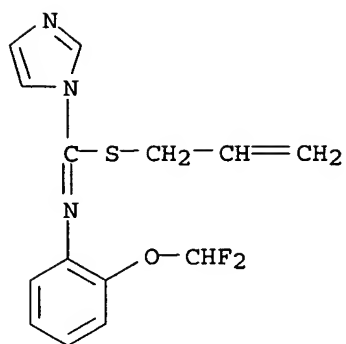
RN 101856-69-3 HCAPLUS

CN 1H-Imidazole-1-carboximidithioic acid, N-[2-(2-propynyloxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



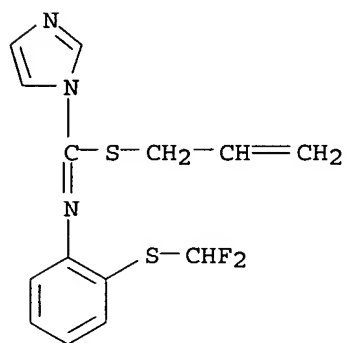
RN 101856-70-6 HCAPLUS

CN 1H-Imidazole-1-carboximidithioic acid, N-[2-(difluoromethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



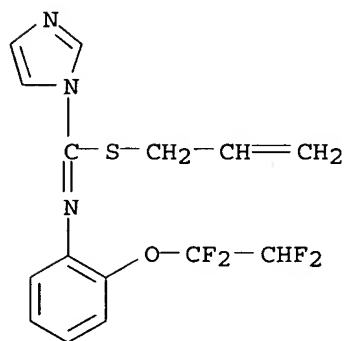
RN 101856-71-7 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-[(difluoromethyl)thio]phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



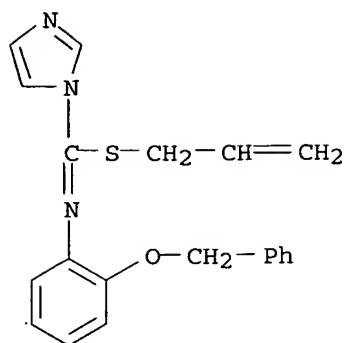
RN 101856-72-8 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1,1,2,2-tetrafluoroethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



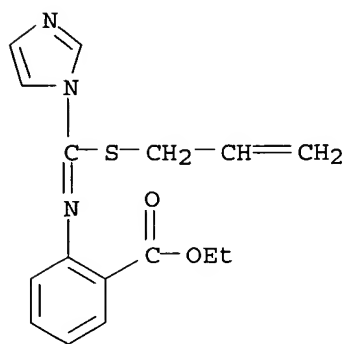
RN 101856-74-0 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(phenylmethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



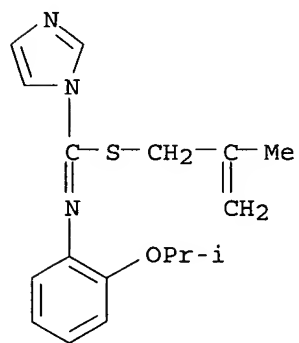
RN 101856-75-1 HCAPLUS

CN Benzoic acid, 2-[[1H-imidazol-1-yl] (2-propenylthio)methylene]amino]-, ethyl ester (9CI) (CA INDEX NAME)



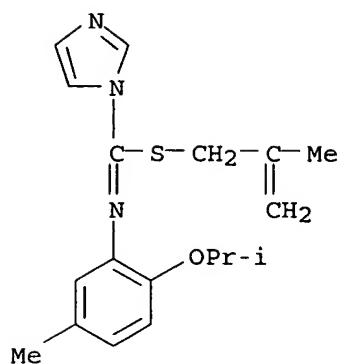
RN 101856-76-2 HCAPLUS

CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



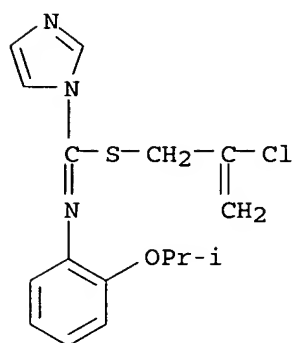
RN 101856-78-4 HCAPLUS

CN 1H-Imidazole-1-carboximidothioic acid, N-[5-methyl-2-(1-methylethoxy)phenyl]-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



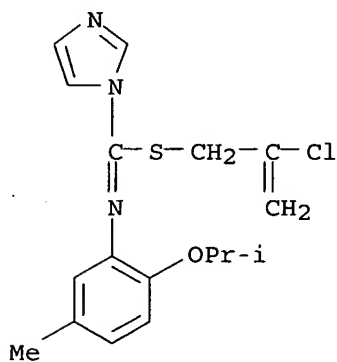
RN 101856-79-5 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-chloro-2-propenyl ester (9CI) (CA INDEX NAME)



RN 101856-80-8 HCAPLUS

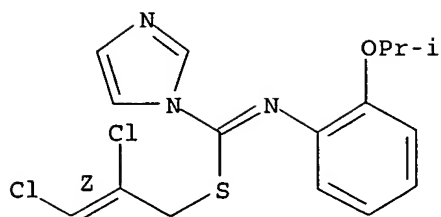
CN 1H-Imidazole-1-carboximidodithioic acid, N-[5-methyl-2-(1-methylethoxy)phenyl]-, 2-chloro-2-propenyl ester (9CI) (CA INDEX NAME)



RN 101856-81-9 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, 2,3-dichloro-2-propenyl ester, (Z,?) (9CI) (CA INDEX NAME)

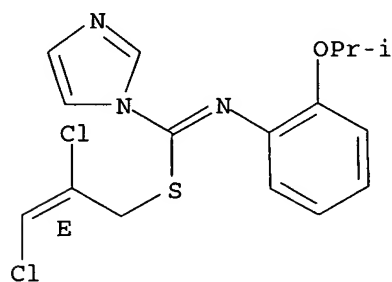
Double bond geometry as described by E or Z.



RN 101856-82-0 HCAPLUS

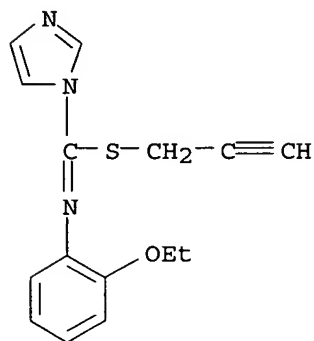
CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, 2,3-dichloro-2-propenyl ester, (E,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



RN 101856-83-1 HCAPLUS

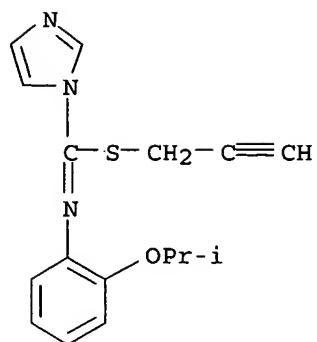
CN 1H-Imidazole-1-carboximidodithioic acid, N-(2-ethoxyphenyl)-, 2-propynyl ester (9CI) (CA INDEX NAME)



RN 101856-84-2 HCAPLUS

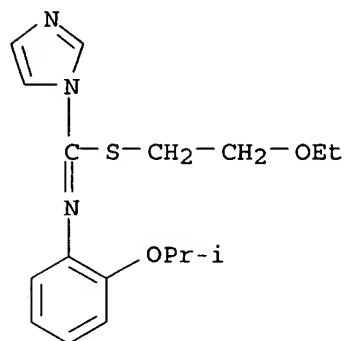
CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-propynyl ester (9CI) (CA INDEX NAME)





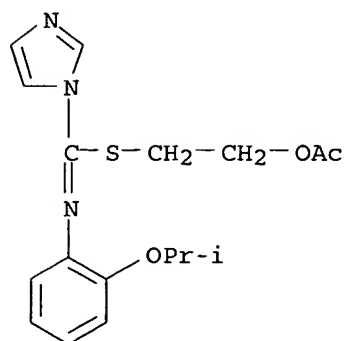
RN 101856-87-5 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-ethoxyethyl ester (9CI) (CA INDEX NAME)



RN 101856-89-7 HCAPLUS

CN 1H-Imidazole-1-carboximidodithioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-(acetyloxy)ethyl ester (9CI) (CA INDEX NAME)



L29 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:551861 HCAPLUS

DOCUMENT NUMBER: 101:151861

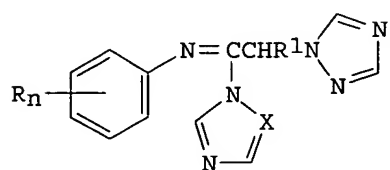
TITLE: Antifungal triazoles

PATENT ASSIGNEE(S): Hokko Chemical Industry Co., Ltd., Japan

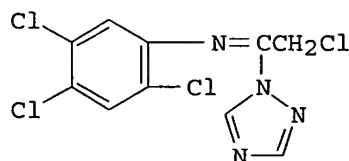
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59088473	A2	19840522	JP 1982-198854	19821115 <--
JP 02003785	B4	19900124		
PRIORITY APPLN. INFO.: GI			JP 1982-198854	19821115



I



II

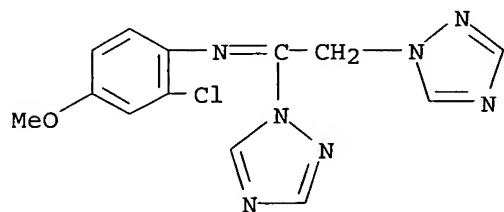
AB Twelve triazoles I ( $R_n = H, 4\text{-CF}_3, 2,4\text{-Cl}_2, 2,6\text{-Me}_2, 2,4,5\text{-Cl}_3$ , etc.;  $R_1 = H, Me, Et$ ;  $X = N, CH$ ), useful as agricultural fungicides, were prepared e.g. from the (chloroethyl)triazole II and 1,2,4-triazole (III). Thus, refluxing 32.4 g II with 7.3 g III in  $Me_2CO$  containing  $K_2CO_3$  for 2 h gave 32.4 g I ( $R_n = 2,4,5\text{-Cl}_3, R_1 = H, X = N$ ).

IT 92310-85-5P 92310-91-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as fungicides)

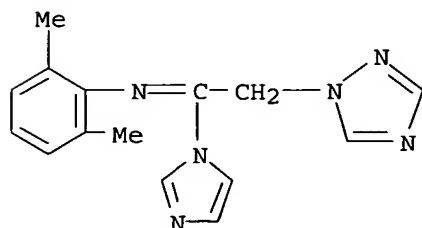
RN 92310-85-5 HCAPLUS

CN 1H-1,2,4-Triazole, 1-[1-[(2-chloro-4-methoxyphenyl)imino]-2-(1H-1,2,4-triazol-1-yl)ethyl]- (9CI) (CA INDEX NAME)



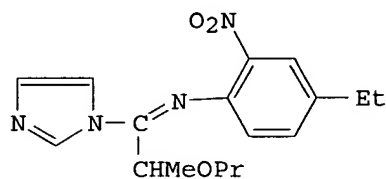
RN 92310-91-3 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(1H-1,2,4-triazol-1-yl)ethyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1984:191876 HCAPLUS  
 DOCUMENT NUMBER: 100:191876  
 TITLE: 1-[N-(4-Ethyl-2-nitrophenyl)-2-propoxypropaneimido]imidazole  
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58216162	A2	19831215	JP 1982-98973	19820609 <--
JP 03015635	B4	19910301		
PRIORITY APPLN. INFO.:			JP 1982-98973	19820609
OTHER SOURCE(S):		CASREACT 100:191876		
GI				

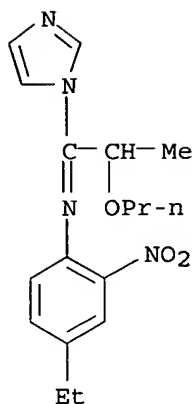


I

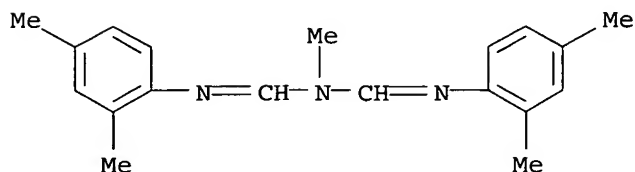
AB Title compound (I) was prepared by reaction of 4,2-Et(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>N: CXCHMeOPr (X = halo) with imidazole (II) in the presence of acid scavengers. Thus, a mixture of 33 g 4,2-Et(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>NHCOCHMeOPr, 56 g Ph<sub>3</sub>P, 22 g II, and 50 mL CCl<sub>4</sub> in MeCN was stirred 20 h at room temperature to give 27 g I. I showed fungicidal activity at 250 ppm.

IT **89971-17-5P**  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and **fungicidal** activity of)

RN 89971-17-5 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(4-ethyl-2-nitrophenyl)imino]-2-propoxypropyl]- (9CI)  
 (CA INDEX NAME)



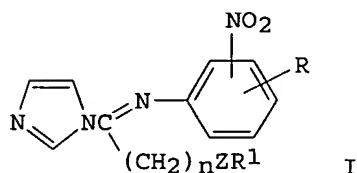
L29 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1984:81214 HCAPLUS  
 DOCUMENT NUMBER: 100:81214  
 TITLE: Effects of pesticides on the apple rust mite *Aculus schlechtendali* (Nal.) (Eriophyidae)  
 AUTHOR(S): Easterbrook, M. A.  
 CORPORATE SOURCE: East Malling Res. Stn., Maidstone/Kent, ME19 6BJ, UK  
 SOURCE: Journal of Horticultural Science (1984), 59(1), 51-5  
 CODEN: JHSCA8; ISSN: 0022-1589  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Of pesticides tested for their effect on *A. schlechtendali* in field trials, pirimiphos-methyl [29232-93-7] and amitraz [33089-61-1] gave the most effective control pre-blossom, though these materials were very toxic to the predator, *Typhlodromus pyri*. Endosulfan [115-29-7] and carbaryl [63-25-2] gave moderate control pre-blossom and good control post-blossom; cyhexatin [13121-70-5] was only effective post-blossom. Several of the materials tested were more toxic to *A. schlechtendali* than to *T. pyri* and so are potentially useful for inclusion in integrated pest management programs. Of the **fungicides** tested, only dispersible S reduced rust mite populations substantially.  
 IT 33089-61-1  
 RL: BIOL (Biological study)  
 (apple rust mite control by, toxicity to *Typhlodromus* in relation to)  
 RN 33089-61-1 HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L29 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1982:544859 HCAPLUS  
 DOCUMENT NUMBER: 97:144859

TITLE: Fungicidal imidazoles  
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57108071	A2	19820705	JP 1980-182886	19801225 <--
PRIORITY APPLN. INFO.: GI			JP 1980-182886	19801225



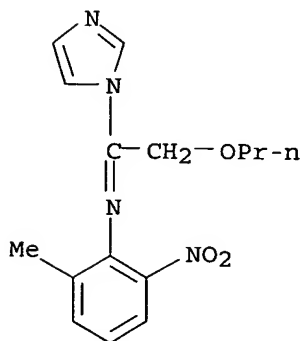
AB Title compds. I (R = halo, alkyl, haloalkyl; R1 = alkyl, alkenyl, Ph; Z = O, S; n = 1, 2), useful as fungicides (data given) were prepared. Thus, chlorination of 7 g 2,6-Me(O2N)C6H3NHCOCH2OPr followed by condensation with 3.1 g imidazole gave 3.1 g I (R = Me, R1 = Pr, Z = O, n = 1).

IT 83189-26-8P 83189-27-9P 83189-28-0P  
 83189-29-1P 83189-30-4P 83189-31-5P  
 83189-32-6P 83189-33-7P 83189-34-8P  
 83189-35-9P 83189-39-3P 83189-40-6P  
 83189-41-7P 83189-42-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and fungicidal activity of)

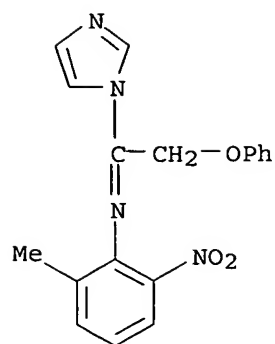
RN 83189-26-8 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-propoxyethyl]- (9CI)  
 (CA INDEX NAME)

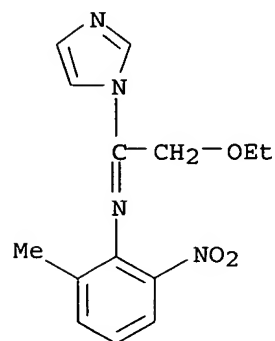


RN 83189-27-9 HCAPLUS

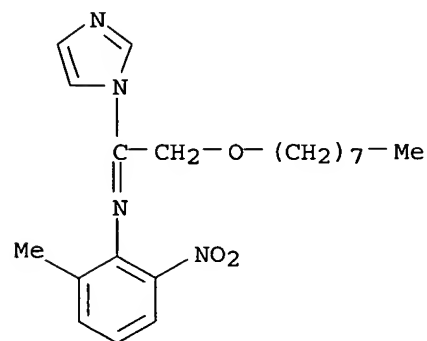
CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-phenoxyethyl]- (9CI)  
 (CA INDEX NAME)



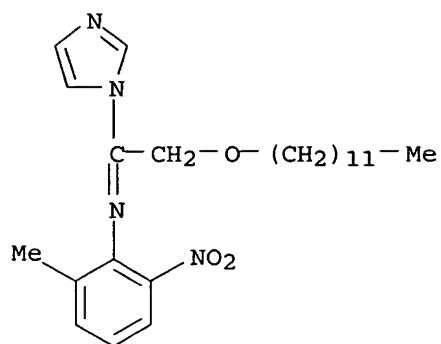
RN 83189-28-0 HCAPLUS  
 CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]ethyl]- (9CI)  
 (CA INDEX NAME)



RN 83189-29-1 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-(octyloxy)ethyl]-  
 (9CI) (CA INDEX NAME)

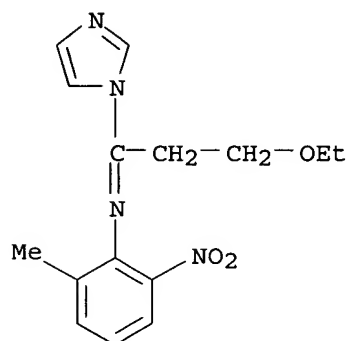


RN 83189-30-4 HCAPLUS  
 CN 1H-Imidazole, 1-[2-(dodecyloxy)-1-[(2-methyl-6-nitrophenyl)imino]ethyl]-  
 (9CI) (CA INDEX NAME)



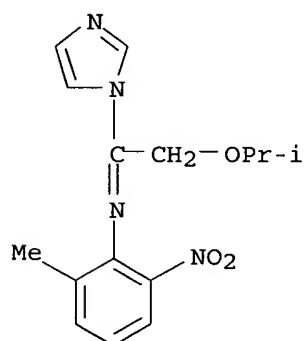
RN 83189-31-5 HCAPLUS

CN 1H-Imidazole, 1-[3-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]propyl]- (9CI)  
(CA INDEX NAME)



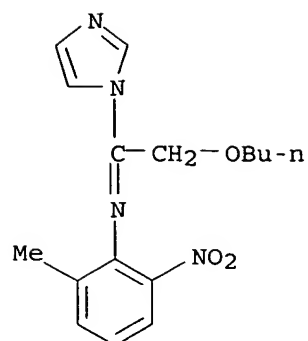
RN 83189-32-6 HCAPLUS

CN 1H-Imidazole, 1-[2-(1-methylethoxy)-1-[(2-methyl-6-nitrophenyl)imino]ethyl]- (9CI)  
(CA INDEX NAME)



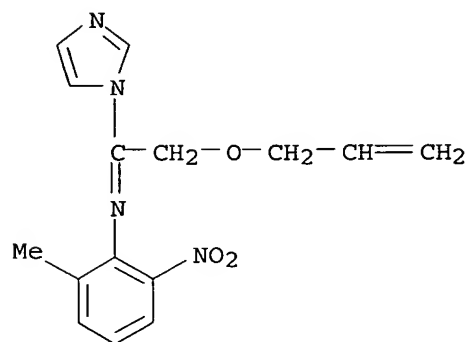
RN 83189-33-7 HCAPLUS

CN 1H-Imidazole, 1-[2-butoxy-1-[(2-methyl-6-nitrophenyl)imino]ethyl]- (9CI)  
(CA INDEX NAME)



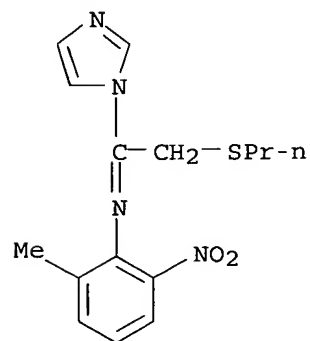
RN 83189-34-8 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-(2-propenyloxy)ethyl]-  
(9CI) (CA INDEX NAME)



RN 83189-35-9 HCAPLUS

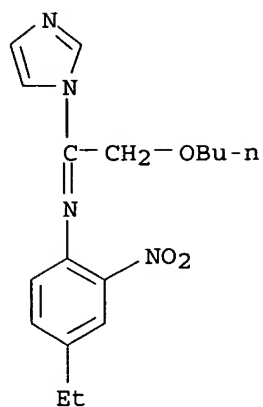
CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-(propylthio)ethyl]-  
(9CI) (CA INDEX NAME)



RN 83189-39-3 HCAPLUS

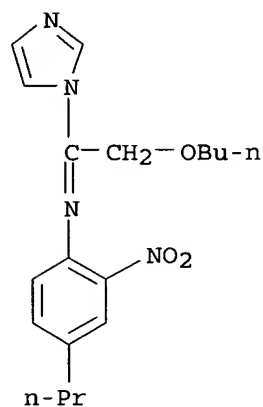
CN 1H-Imidazole, 1-[2-butoxy-1-[(4-ethyl-2-nitrophenyl)imino]ethyl]- (9CI)  
(CA INDEX NAME)





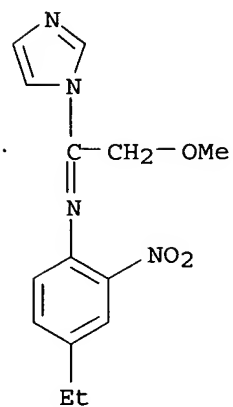
RN 83189-40-6 HCAPLUS

CN 1H-Imidazole, 1-[2-butoxy-1-[(2-nitro-4-propylphenyl)imino]ethyl]- (9CI)  
(CA INDEX NAME)



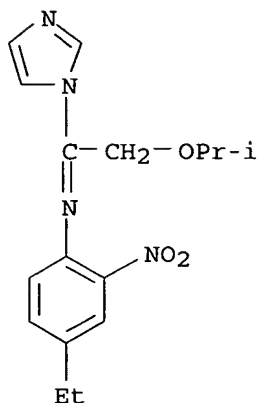
RN 83189-41-7 HCAPLUS

CN 1H-Imidazole, 1-[1-[(4-ethyl-2-nitrophenyl)imino]-2-methoxyethyl]- (9CI)  
(CA INDEX NAME)



RN 83189-42-8 HCAPLUS

CN 1H-Imidazole, 1-[1-[(4-ethyl-2-nitrophenyl)imino]-2-(1-methylethoxy)ethyl]-  
(9CI) (CA INDEX NAME)



L29 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:470004 HCAPLUS

DOCUMENT NUMBER: 91:70004

TITLE: Imidazoles fungicides

INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Nakada, Akira;  
Mizuno, Masami

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

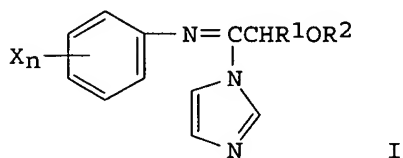
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 54024872	A2	19790224	JP 1977-89940	19770727 <--
JP 60019752	B4	19850517		
US 4208411	A	19800617	US 1978-886558	19780314 <--
IL 54292	A1	19830615	IL 1978-54292	19780315 <--
SE 7803175	A	19781001	SE 1978-3175	19780320 <--
SE 437156	B	19850211		
SE 437156	C	19850530		
CA 1093562	A1	19810113	CA 1978-299424	19780321 <--
GB 1591212	A	19810617	GB 1978-11356	19780322 <--
FR 2385703	A1	19781027	FR 1978-8512	19780323 <--
FR 2385703	B1	19800208		
AT 7802085	A	19801015	AT 1978-2085	19780323 <--
AT 362357	B	19810511		
IN 147216	A	19791222	IN 1978-CA338	19780329 <--
PL 110759	B1	19800731	PL 1978-205657	19780329 <--
DD 144407	C	19801015	DD 1978-213994	19780329 <--
PL 118661	B1	19811031	PL 1978-215825	19780329 <--
BR 7801968	A	19790529	BR 1978-1968	19780330 <--
ES 468381	A1	19791001	ES 1978-468381	19780330 <--
CS 199723	P	19800731	CS 1978-2043	19780330 <--
SU 793357	D	19801230	SU 1978-2595954	19780330 <--
DK 7801439	A	19781001	DK 1978-1439	19780331 <--
DK 157490	B	19900115		

DK 157490	C	19900611		
NL 7803468	A	19781003	NL 1978-3468	19780331 <--
NL 172745	B	19830516		
NL 172745	C	19831017		
DE 2814041	A1	19781005	DE 1978-2814041	19780331 <--
DE 2814041	B2	19791206		
DE 2814041	C3	19800807		
AU 504470	B1	19791018	AU 1978-34660	19780331 <--
HU 23487	O	19820928	HU 1978-NI212	19780331 <--
HU 180896	B	19830530		
CH 636088	A	19830513	CH 1978-3482	19780331 <--
SU 745364	D	19800630	SU 1978-2665907	19780922 <--
AT 8002870	A	19810915	AT 1980-2870	19800529 <--
AT 366551	B	19820426		
PRIORITY APPLN. INFO.:			JP 1977-35236	A 19770331
			JP 1977-89940	A 19770727
			AT 1978-2085	A 19780323

GI

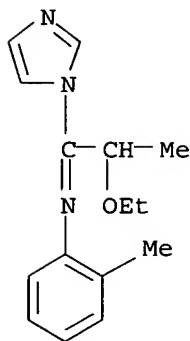


AB Imidazole derivs. I (R1 = alkyl; R2 = alkyl, alkenyl, or Ph; X = halo, alkyl, haloalkyl, or NO2; n = 1 or 2) are fungicides. Thus, 200 ppm 1-[1-[(2-bromophenyl)imino]-2-ethoxypropyl]imidazole [68693-77-6] controlled Spherotheca fuliginea infection. Synthesis is presented.

IT 68693-86-7P 68694-01-9P 68694-03-1P  
70790-73-7P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and **fungicidal** activity of)

RN 68693-86-7 HCAPLUS

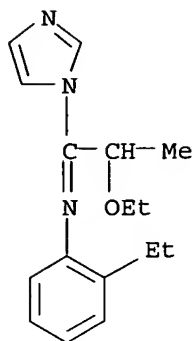
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methylphenyl)imino]propyl]- (9CI) (CA INDEX NAME)



RN 68694-01-9 HCAPLUS

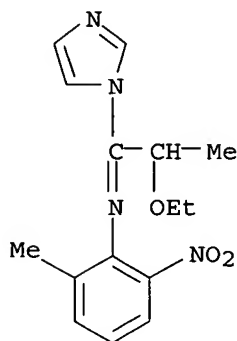
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-ethylphenyl)imino]propyl]- (9CI) (CA

INDEX NAME)



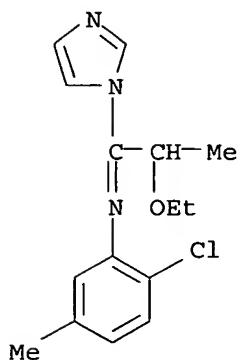
RN 68694-03-1 HCAPLUS

CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]propyl]- (9CI)  
(CA INDEX NAME)



RN 70790-73-7 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-chloro-5-methylphenyl)imino]-2-ethoxypropyl]- (9CI)  
(CA INDEX NAME)

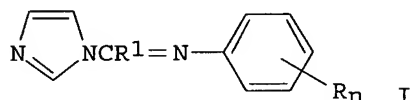


L29 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1979:38917 HCAPLUS  
DOCUMENT NUMBER: 90:38917

TITLE: Fungicidal imidazole derivatives  
 INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Kataoka, Masaaki;  
 Nakada, Akira; Mizuno, Masami  
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan  
 SOURCE: Ger. Offen., 28 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2814041	A1	19781005	DE 1978-2814041	19780331 <--
DE 2814041	B2	19791206		
DE 2814041	C3	19800807		
JP 53135975	A2	19781128	JP 1977-35236	19770331 <--
JP 60001315	B4	19850114		
JP 54024872	A2	19790224	JP 1977-89940	19770727 <--
JP 60019752	B4	19850517		
PRIORITY APPLN. INFO.:			JP 1977-35236	A 19770331
			JP 1977-89940	A 19770727

GI



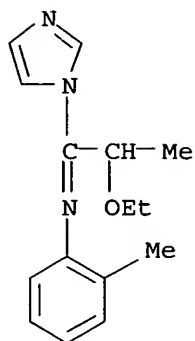
AB The imidazole derivs. I (R = halogen, alkyl, haloalkyl; n = 1, 2; R1 = PhCH2, alkoxy-, alkenoyloxy-, or phenoxyalkyl) and their metal complexes were prepared for use as fungicides. Thus, EtOCHMeCONHC6H4Br-2 reacted with PCl5 and imidazole in CHCl3 to give I (R = 2-Br, R1 = CHMeOEt), which at 200 ppm gave 100% control of Botrytis cinerea on beans.

IT 68693-86-7P 68693-95-8P 68694-01-9P  
 68694-03-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and fungicidal activity of)

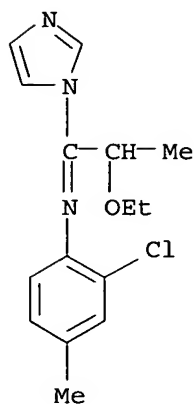
RN 68693-86-7 HCAPLUS

CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methylphenyl)imino]propyl]- (9CI) (CA  
 INDEX NAME)



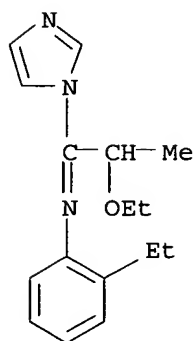
RN 68693-95-8 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-chloro-4-methylphenyl)imino]-2-ethoxypropyl]- (9CI)  
(CA INDEX NAME)



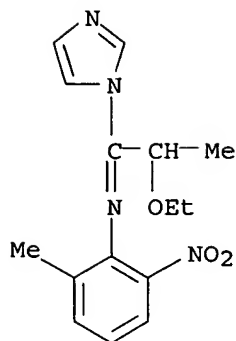
RN 68694-01-9 HCAPLUS

CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-ethylphenyl)imino]propyl]- (9CI) (CA  
INDEX NAME)



RN 68694-03-1 HCAPLUS

CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]propyl]- (9CI)  
(CA INDEX NAME)



L29 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1978:501873 HCAPLUS  
 DOCUMENT NUMBER: 89:101873  
 TITLE: Fungicidal and bactericidal agents  
 INVENTOR(S): Guenther, Eberhard; Kochmann, Werner; Mueller, Siegfried; Naumann, Kurt; Reimann, Wolfgang; Roethling, Tilo; Schulz, Heinz; Thalheim, Gerhard; Toepfer, Juergen; Weidner, Karl Friedrich  
 PATENT ASSIGNEE(S): VEB Chemiekombinat Bitterfeld, Ger. Dem. Rep.  
 SOURCE: Ger. (East), 15 pp.  
 CODEN: GEXXA8  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 127377	Z	19770921	DD 1976-194637	19760906 <--
PRIORITY APPLN. INFO.:			DD 1976-194637	A1 19760906

AB The quaternary immonium compds. [R1R2C:N+HR3] X- and the quaternary ammonium compds. [R1R2R4N+H] X- (R1 = H or alkyl; R2 = alkyl, aryl, mono- and dialkylamino; R3 = alkyl, substituted alkyl, aralkyl, substituted aryl; R4 = C1-17 alkyl; X- = sulfinat, sulfonate, thiophosphonate, etc) are bactericides and fungicides. Thus 0.1% [Me2NCH:N+HC6H4Cl-o]C15H31SO2-[67038-16-8] totally controlled Phytophthora infestans on tomato.

IT 67037-70-1 67037-71-2 67037-75-6  
 67037-76-7 67037-85-8  
 RL: BIOL (Biological study)  
 (bactericide and fungicide)

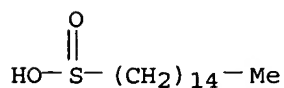
RN 67037-70-1 HCAPLUS

CN 1-Pentadecanesulfinic acid, compd. with N,N-dimethyl-N'-(2-methylphenyl)methanimidamide (1:1) (9CI) (CA INDEX NAME)

CM 1

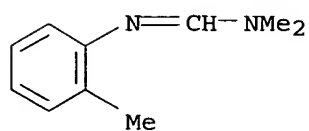
CRN 67037-68-7

CMF C15 H32 O2 S



CM 2

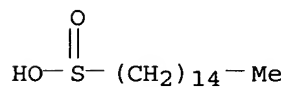
CRN 10278-71-4  
CMF C10 H14 N2



RN 67037-71-2 HCAPLUS  
CN 1-Pentadecanesulfinic acid, compd. with N'-(2-ethylphenyl)-N,N-dimethylmethanimidamide (1:1) (9CI) (CA INDEX NAME)

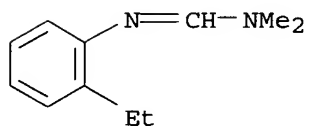
CM 1

CRN 67037-68-7  
CMF C15 H32 O2 S



CM 2

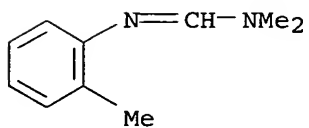
CRN 62330-87-4  
CMF C11 H16 N2



RN 67037-75-6 HCAPLUS  
CN Benzenesulfinic acid, 4-methyl-, compd. with N,N-dimethyl-N'-(2-methylphenyl)methanimidamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 10278-71-4  
CMF C10 H14 N2

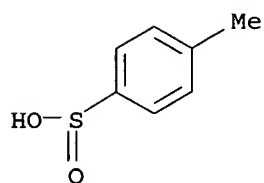




CM 2

CRN 536-57-2

CMF C7 H8 O2 S



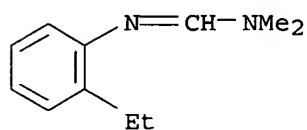
RN 67037-76-7 HCAPLUS

CN Benzenesulfinic acid, 4-methyl-, compd. with N'-(2-ethylphenyl)-N,N-dimethylmethanimidamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 62330-87-4

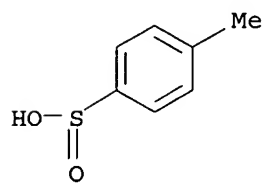
CMF C11 H16 N2



CM 2

CRN 536-57-2

CMF C7 H8 O2 S



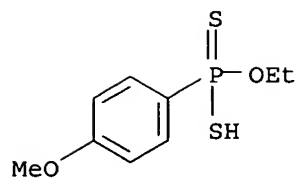
RN 67037-85-8 HCAPLUS

CN Phosphonodithioic acid, (4-methoxyphenyl)-, O-ethyl ester, compd. with N,N-dimethyl-N'-(2-methylphenyl)methanimidamide (1:1) (9CI) (CA INDEX NAME)

CM 1

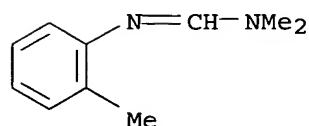
CRN 67037-84-7

CMF C9 H13 O2 P S2



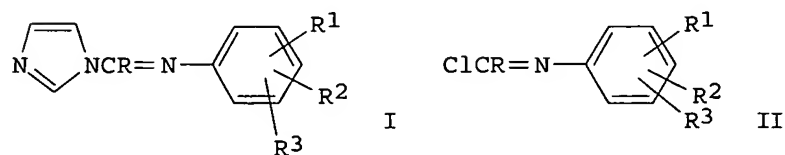
CM 2

CRN 10278-71-4  
CMF C10 H14 N2



L29 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1978:443413 HCAPLUS  
 DOCUMENT NUMBER: 89:43413  
 TITLE: Imidazole derivatives  
 INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Kataoka, Masaaki  
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53015372	A2	19780213	JP 1976-89718	19760729 <--
JP 60019298	B4	19850515		
PRIORITY APPLN. INFO.: GI			JP 1976-89718	A 19760729



AB Fifty-nine imidazoles I (R = alkyl, cycloalkyl; R1, R2, R3 = H, halo, NO2, alkyl, haloalkyl, alkoxy) were prepared by reaction of II with imidazole in the presence of a base. I had fungicidal activity against Botrytis einerea, Helminthosporium maydis, and Rhizoctonia solani. Thus, a mixture of 7 g N-(2,4,6-trimethylphenyl)pentaneamide and 7.4 g PCl5 in CHCl3 was refluxed 1 h, concentrated, 2.5 g imidazole in CHCl3 added, the mixture stirred 30

min at 50-60°, 3.5 g Et<sub>3</sub>N in CHCl<sub>3</sub> added with ice cooling, and the whole stirred 30 min at 50-60° to give 5.15 g I (R = Bu, R<sub>1</sub> = 2-Me, R<sub>2</sub> = 4-Me, R<sub>3</sub> = 6-Me).

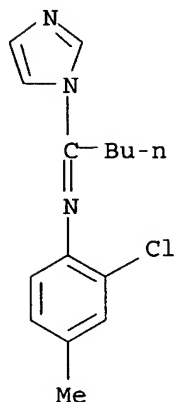
IT 64352-13-2P 64352-15-4P 64352-27-8P  
64352-28-9P 64352-29-0P 64352-30-3P  
64352-31-4P 64352-32-5P 66654-95-3P  
66655-01-4P 66655-11-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and fungicidal activity of)

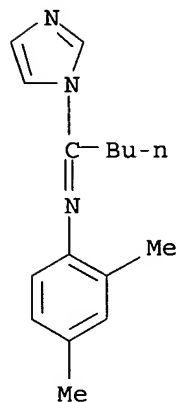
RN 64352-13-2 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-chloro-4-methylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



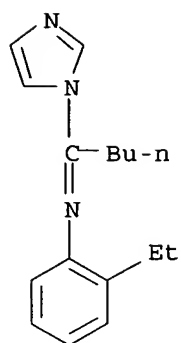
RN 64352-15-4 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2,4-dimethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)

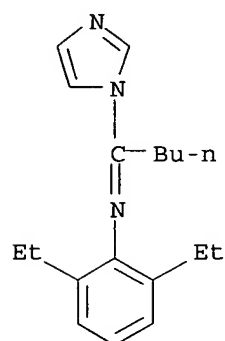


RN 64352-27-8 HCAPLUS

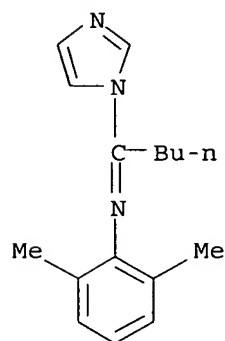
CN 1H-Imidazole, 1-[1-[(2-ethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



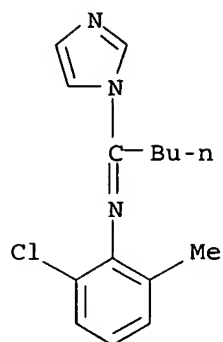
RN 64352-28-9 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2,6-diethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



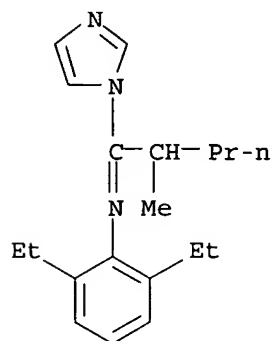
RN 64352-29-0 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



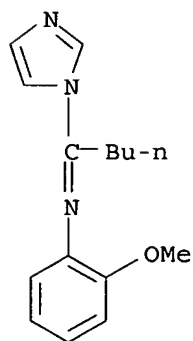
RN 64352-30-3 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2-chloro-6-methylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



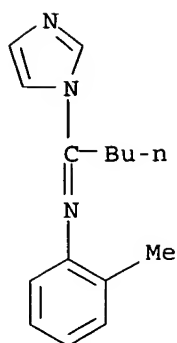
RN 64352-31-4 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2,6-diethylphenyl)imino]-2-methylpentyl]- (9CI) (CA INDEX NAME)



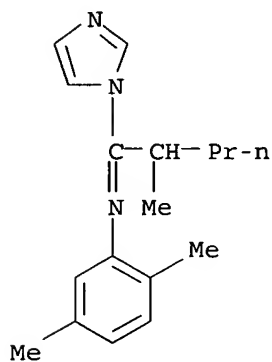
RN 64352-32-5 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2-methoxyphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



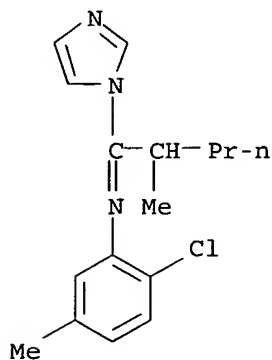
RN 66654-95-3 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2-methylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



RN 66655-01-4 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2,5-dimethylphenyl)imino]-2-methylpentyl]- (9CI) (CA INDEX NAME)



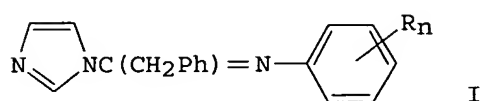
RN 66655-11-6 HCAPLUS  
 CN 1H-Imidazole, 1-[1-[(2-chloro-5-methylphenyl)imino]-2-methylpentyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1978:121179 HCAPLUS  
 DOCUMENT NUMBER: 88:121179  
 TITLE: Imidazole derivatives

INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Nakata, Akira;  
Kataoka, Masaaki  
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

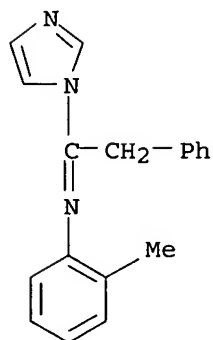
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52113962	A2	19770924	JP 1976-29878	19760322 <--
PRIORITY APPLN. INFO.: GI			JP 1976-29878	A 19760322



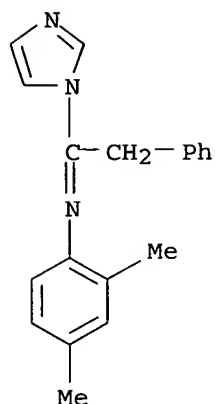
AB Ten imidazole derivs. I (R = halo, Me, MeO; n = 1,2) were prepared by reaction of  $RnC_6H_5-nN: CXCH_2Ph$  with imidazole (II). I are useful as agricultural fungicides; the data were given against *Sphaerotheca fuliginta*, *Helminthosporium maydis*, and *Rhizoctonia solani*. Thus, a mixture of 8 g 2,4-MeClC<sub>6</sub>H<sub>3</sub>NHCOCH<sub>2</sub>Ph and 7.8 g PCl<sub>5</sub> was refluxed 1 h at 100-130°, concentrated, 2.4 g II in CHCl<sub>3</sub> added with ice cooling, 4 g Et<sub>3</sub>N in CHCl<sub>3</sub> added, and the whole stirred 30 min at room temperature and 1 h at 60° to give 4.6 g I (R = 2-Me, 4-Cl; n = 2).

IT 65903-27-7P 65903-30-2P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation and fungicidal activity of)

RN 65903-27-7 HCAPLUS  
CN 1H-Imidazole, 1-[1-[(2-methylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)

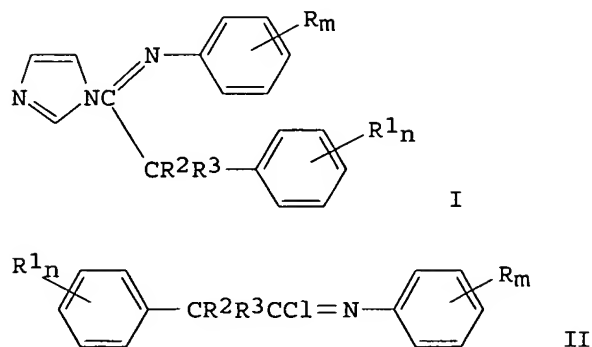


RN 65903-30-2 HCAPLUS  
CN 1H-Imidazole, 1-[1-[(2,4-dimethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1978:105341 HCAPLUS  
 DOCUMENT NUMBER: 88:105341  
 TITLE: Imidazole derivatives  
 INVENTOR(S): Ikura, Katsumita; Katsuura, Kiyoshi; Kataoka, Masaaki  
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52139061	A2	19771119	JP 1976-53850	19760513 <--
JP 60019297	B4	19850515		
PRIORITY APPLN. INFO.: GI			JP 1976-53850	A 19760513



AB Thirteen title derivs. I (R = Me, Et, Cl; m = 1-3; R1 = H, Me, MeO, Cl, NO2; n = 0-2; R2, R3 = H, Me, Bu) were prepared by reaction of II with imidazole in the presence of acid-binders. I are useful as agricultural fungicides; the data were given against Botrytis cinerea, Rhizoctonia solani, and Sphaerotheca fuliginea. Thus, a mixture of 32 g



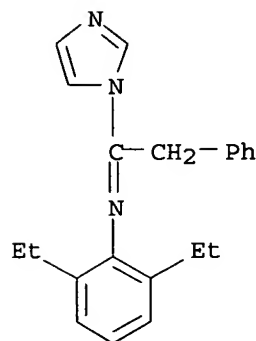
PhCH<sub>2</sub>CONHC<sub>6</sub>H<sub>3</sub>Et<sub>2</sub>-2,6 and 27.5 g PCl<sub>5</sub> in CHCl<sub>3</sub> was refluxed 1 h, concentrated, CHCl<sub>3</sub> added, 9 g imidazole added, the whole stirred 30 min at 50-6°, 13.3 g Et<sub>3</sub>N in CHCl<sub>3</sub> added with ice cooling, and the whole stirred 30 min at 50-60° to give 25.2 g I (R<sub>m</sub> = 2-Et and 6-Et, R<sub>1</sub> = R<sub>2</sub> = R<sub>3</sub> = H).

IT 65807-76-3P 65807-82-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and agricultural fungicidal activity of)

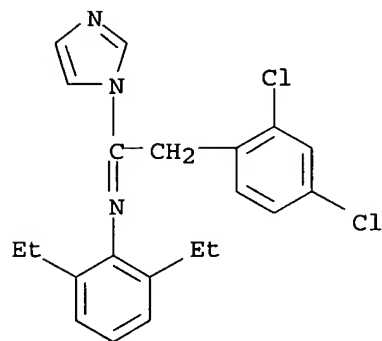
RN 65807-76-3 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2,6-diethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



RN 65807-82-1 HCAPLUS

CN 1H-Imidazole, 1-[2-(2,4-dichlorophenyl)-1-[(2,6-diethylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1977:534746 HCAPLUS

DOCUMENT NUMBER: 87:134746

TITLE: Alkyl 4-[o-(substituted methyleneamino)-phenyl]-3-thioallophanate miticides and fungicides

INVENTOR(S): Wommack, Joel Benjamin, Jr.

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA

SOURCE: U.S., 16 pp. Division of U.S. 3,958,007.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4018926	A	19770419	US 1976-648760	19760113 <--
US 3836569	A	19740917	US 1969-865947	19691013 <--
US 3958007	A	19760518	US 1974-473156	19740524 <--

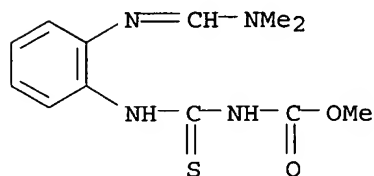
PRIORITY APPLN. INFO.:  
 US 1969-865947 A2 19691013  
 US 1974-473156 A3 19740524

AB O-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NHCSNHCO<sub>2</sub>Me (I) was treated with aldehydes in C<sub>6</sub>H<sub>6</sub> at reflux in the presence of p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H to give .apprx.25 o-(RCH:N)C<sub>6</sub>H<sub>4</sub>NHCSNHCO<sub>2</sub>Me (II; R = Ph, substituted phenyl, furyl, pyridyl, quinolyl). I was also heated with (MeO)<sub>3</sub>CH in C<sub>6</sub>H<sub>6</sub> and the product (II, R = MeO) was treated with Me<sub>2</sub>NH to give II (R = Me<sub>2</sub>N). Salts, e.g., Na and Ca, were also prepared from some II. Miticidal and fungicidal activity of some II are given, e.g., apple trees sprayed with II (R = 2,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>) were free of apple scab disease as against the unsprayed trees which were heavily infected with apple scab.

IT **54106-68-2P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, for use as miticide and **fungicide**)

RN 54106-68-2 HCAPLUS

CN Carbamic acid, [[[2-[(dimethylamino)methylene]amino]phenyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



L29 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:473221 HCAPLUS

DOCUMENT NUMBER: 83:73221

TITLE: Fungicide movement in soils

AUTHOR(S): Helling, Charles S.; Dennison, D. Gayle; Kaufman, Donald D.

CORPORATE SOURCE: Agric. Res. Cent. West, ARS, Beltsville, MD, USA

SOURCE: Phytopathology (1974), 64(8), 1091-100

CODEN: PHYTAJ; ISSN: 0031-949X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB A method combining a bioassay with soil thin-layer chromatog. (soil TLC) was developed to determine the mobility of **fungicides** in soils. After leaching soil TLC plates with water, 10 soil fungi (*Aspergillus fumigatus*, *Diplodia zeae*, 2 isolates of *Fusarium moniliforme*, *F. roseum*, *Helminthosporium sativum*, *Penicillium chrysogenum*, *P. rugulosum*, *Rhizoctonia solani*, and *Trichoderma viride*) and an alga (*Chlorella sorokiniana*) were tested as visualizing agents by spraying plates with a liquid nutrient agar suspension of the organism. Plates were incubated at 100% relative humidity and .apprx.28° until inhibition or stimulation zones appeared, usually at 1-4 days. The mobility of 38 pesticides (33 **fungicides**, 3 insecticides, 1 acaricide, and 1 herbicide) in Hagerstown silty clay loam was determined. The relatively mobile compds. were cycloheximide (I) [66-81-9], cycloheximide oxime [20362-15-6], Dexon [140-56-7], the mercaptide component of Ceresan L,

formetanate [22259-30-9], formparanate [35452-92-7], and oxycarboxin [5259-88-1]. Immobile compds. included chloranil [118-75-2], chloroneb [2675-77-6], DCNA [99-30-9], dichlone [117-80-6], dodine [2439-10-3], hexachlorophene [70-30-4], Morestan [2439-01-2], PCNB [82-68-8], TCNA [2438-88-2], Terrazole [2593-15-9], and zineb (II) [12122-67-7]. Of the 11 organisms tested, *T. viride* and *C. sorokiniana* were sensitive to the greatest number of **fungicides**. The mobility order nabam [142-59-6] > maneb [12427-38-2] > II was confirmed by bioassay and autoradiog. In 5 different soils, movement of these 3 dithiocarbamate **fungicides** was inversely related to soil organic matter content.

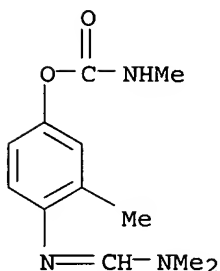
IT 35452-92-7

RL: ANT (Analyte); ANST (Analytical study)

(mobility determination of, in soils, by thin-layer chromatog.)

RN 35452-92-7 HCAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



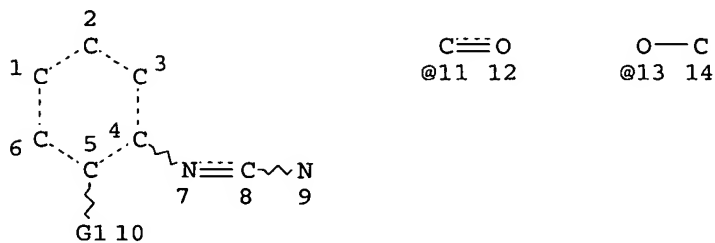
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L1 STR



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DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

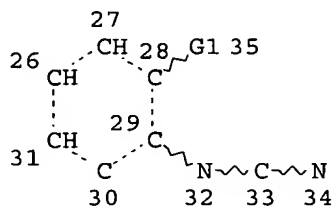
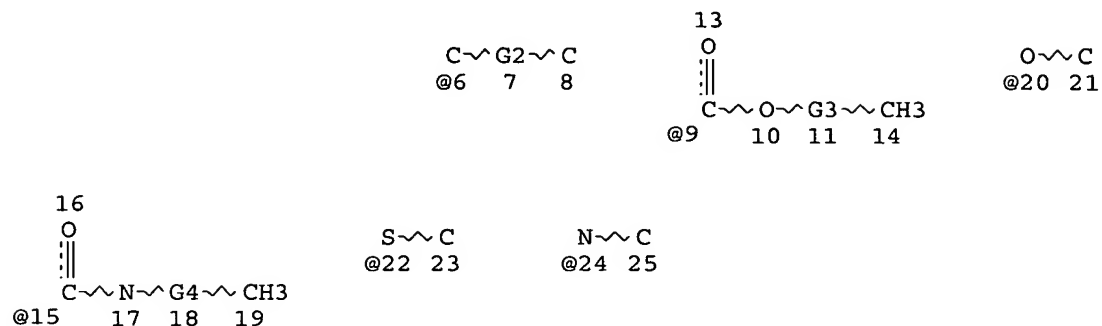
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NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L11 147655 SEA FILE=REGISTRY SSS FUL L1

L12 STR



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REP G3=(1-8) C

REP G4=(3-9) C

NODE ATTRIBUTES:

NSPEC IS RC AT 34

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

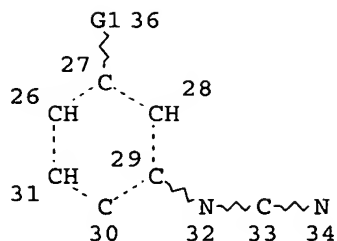
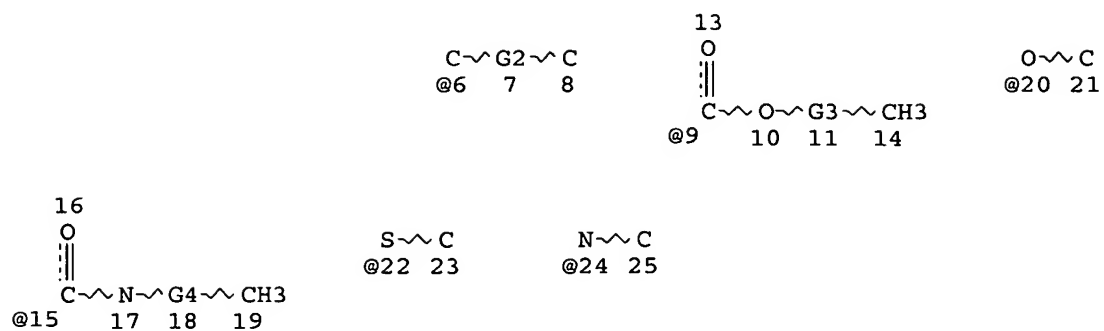
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RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L13 STR



VAR G1=20/22/24/6/9/15/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/SI

REP G2=(3-19) C

REP G3=(1-8) C

REP G4=(3-9) C

NODE ATTRIBUTES:

NSPEC IS RC AT 34

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

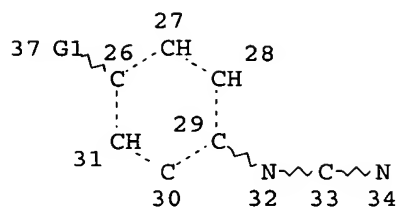
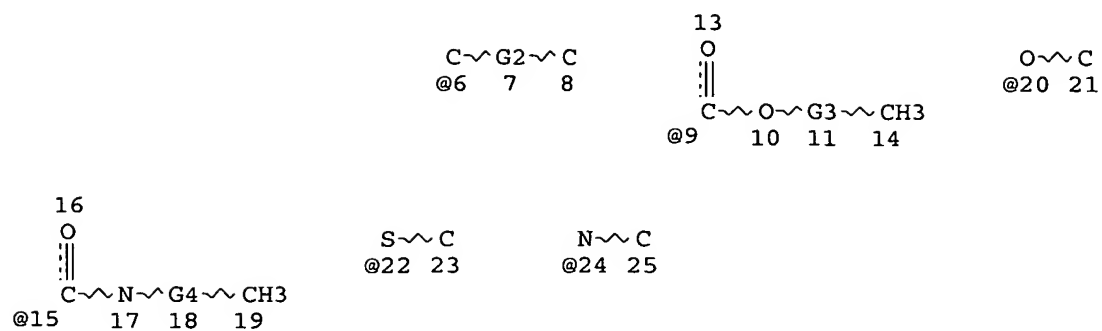
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RING(S) ARE ISOLATED OR EMBEDDED

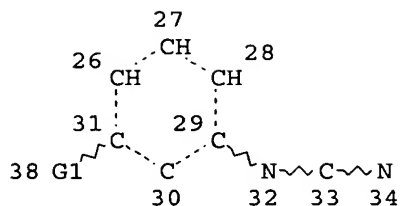
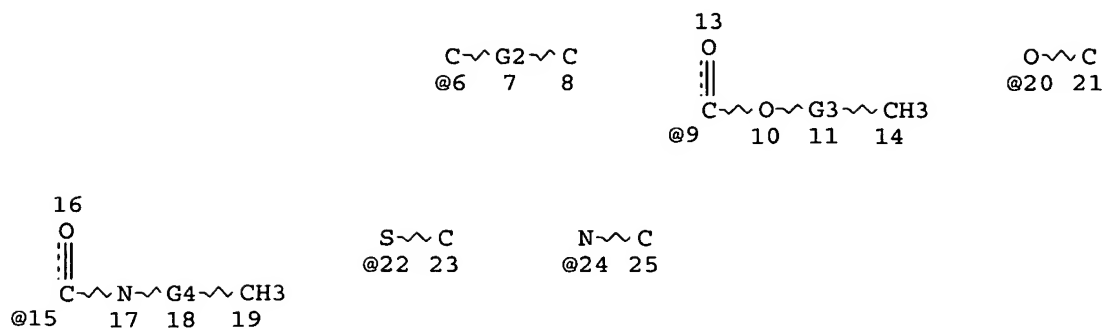
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L14 STR



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 REP G3=(1-8) C  
 REP G4=(3-9) C  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 34  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED  
 GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 29  
 STEREO ATTRIBUTES: NONE  
 L15 STR



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REP G2=(3-19) C

REP G3=(1-8) C

REP G4=(3-9) C

NODE ATTRIBUTES:

NSPEC IS RC AT 34

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

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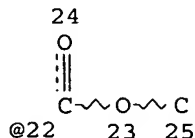
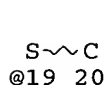
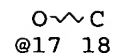
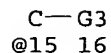
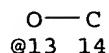
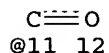
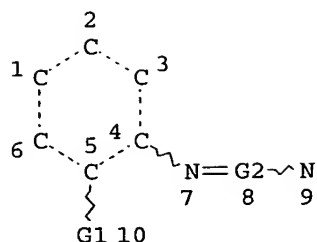
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L18 13078 SEA FILE=REGISTRY SUB=L11 SSS FUL L14

L19 3456 SEA FILE=REGISTRY SUB=L11 SSS FUL L15

L20 60852 SEA FILE=REGISTRY ABB=ON PLU=ON L16 OR L17 OR L18 OR L19

L23 STR



VAR G1=AK/X/CN/11/13/S/N/SI  
 VAR G2=CH/15  
 VAR G3=OH/SH/SO3H/CN/17/19/AK/CY/22  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 9  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RSPEC 1  
 NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

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 L31 342901 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR SURFACT? OR DILUENT?  
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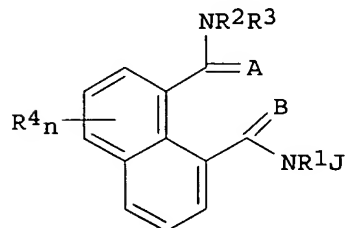
L33 ANSWER 1 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:314898 HCAPLUS  
 DOCUMENT NUMBER: 136:320814  
 TITLE: Insecticidal 1,8-naphthalenedicarboxamides and their  
 preparation, use, and compositions  
 INVENTOR(S): Selby, Thomas Paul; Sun, King-Mo  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 110 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English



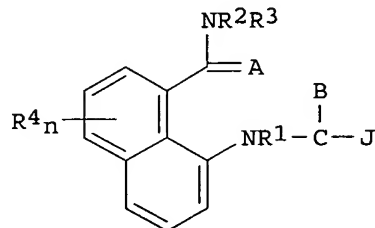
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032856	A2	20020425	WO 2001-US42632	20011011 <--
WO 2002032856	A3	20020704		
WO 2002032856	C2	20040408		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002030401	A5	20020429	AU 2002-30401	20011011 <--
EP 1326827	A2	20030716	EP 2001-987739	20011011
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JP 2004511538	T2	20040415	JP 2002-536040	20011011
BR 2001007384	A	20020924	BR 2001-7384	20020924
US 2004053786	A1	20040318	US 2003-398638	20030404
PRIORITY APPLN. INFO.:			US 2000-240890P	P 20001017
			US 2001-323833P	P 20010921
			WO 2001-US42632	W 20011011

OTHER SOURCE(S): MARPAT 136:320814  
GI



I



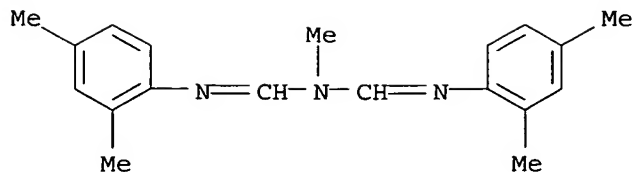
II

AB Compds. I and II (Markush included) are prepared as insecticides. The compds. I and II and their N-oxides and agriculturally suitable salts are useful for controlling invertebrate pests in compns. comprising at least one of a **surfactant**, a solid **diluent** or a liquid **diluent**, and, optionally, at least one addnl. biol. active compound or agent selected from arthropodocides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonist,s insecticidal urea,s and juvenile hormone mimics.

IT 33089-61-1, Amitraz  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(in compns. with insecticidal 1,8-naphthalenedicarboxamides)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



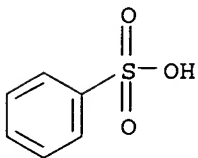
L33 ANSWER 2 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2001:578597 HCAPLUS  
 DOCUMENT NUMBER: 135:124156  
 TITLE: Bactericide combinations in detergents  
 INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip  
 PATENT ASSIGNEE(S): Robert McBride Ltd., UK  
 SOURCE: Brit. UK Pat. Appl., 53 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001 <--
PRIORITY APPLN. INFO.:			GB 1999-23253	19991001

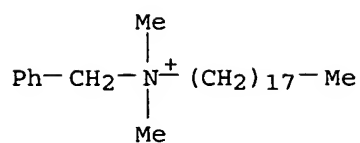
AB The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric **surfactant** which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, citric acid 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing reduction activity after contact 2.

IT 98-11-3D, Benzenesulfonic acid, mono-C10-14-alkyl derivs., compds. with Me 1H-benzimidazol-2-ylcarbamate, uses 122-19-0 139-08-2 151-21-3, uses 577-11-7 683-10-3 1119-94-4 1119-97-7 9004-98-2 15809-19-5 33089-61-1  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)  
 (bactericide combinations in detergents)

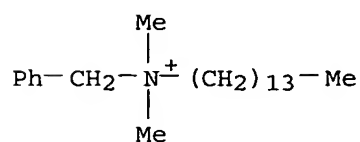
RN 98-11-3 HCAPLUS  
 CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



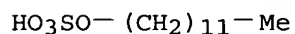
RN 122-19-0 HCAPLUS  
 CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



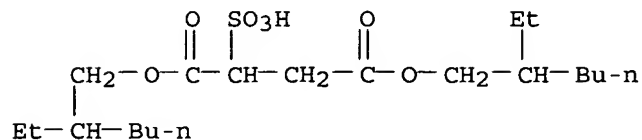
RN 139-08-2 HCAPLUS  
CN Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



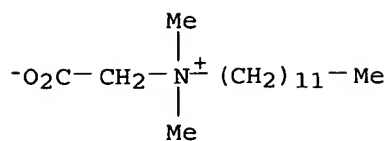
RN 151-21-3 HCAPLUS  
CN Sulfuric acid monododecyl ester sodium salt (8CI, 9CI) (CA INDEX NAME)



RN 577-11-7 HCAPLUS  
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)

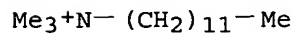


RN 683-10-3 HCAPLUS  
CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



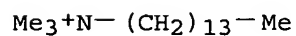
RN 1119-94-4 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



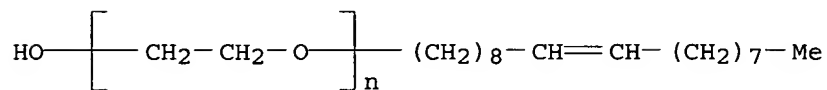
RN 1119-97-7 HCAPLUS

CN 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



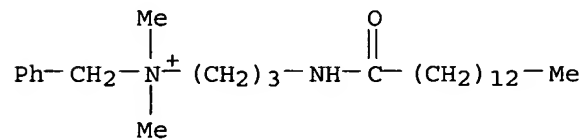
RN 9004-98-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-(9Z)-9-octadecenyl-ω-hydroxy- (9CI) (CA INDEX NAME)



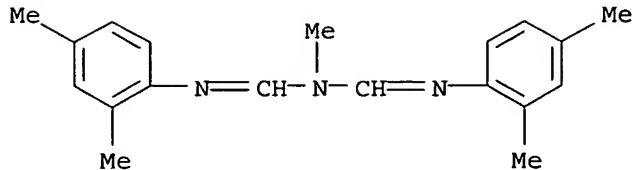
RN 15809-19-5 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[3-[(1-oxotetradecyl)amino]propyl]-, chloride (9CI) (CA INDEX NAME)



RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2001:215406 HCAPLUS  
 DOCUMENT NUMBER: 134:218324  
 TITLE: Mineral oil-containing insecticide and miticide for protecting plant  
 INVENTOR(S): Wang, Yuwan; Pan, Zhende; Dai, Xiaoxi; Na, Shun  
 PATENT ASSIGNEE(S): Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 5 pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1267451	A	20000927	CN 1999-103377	19990323 <--

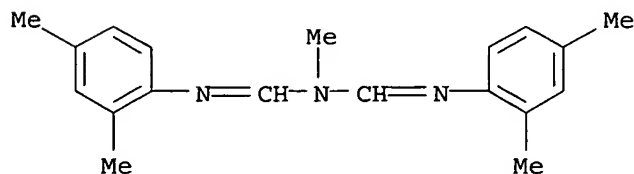
PRIORITY APPLN. INFO.: CN 1999-103377 19990323

AB The composite insecticide and miticide is composed of mineral oil 3-90, insecticide and miticide 0.05-40, emulsifier 3-50, penetrating agent 0-5%, and solvent 0-5%. The mineral oil is selected from petroleum cracking product; the insecticide and miticide from abamectin, liuyangmycin, chlorpyrifos, chlorpyrifos-Me, isocarbophos, fenthion, carbosulfan, methomyl, high effect cypermethrin, brofluthrin, cyfluthrin, fenpropathrin, fenvalerate, imidacloprid, amitraz, azocyclotin, etc.; the emulsifier from cationics, nonionics or anionics; the solvent from xylene, ethanol, isopropanol or acetone; and the penetrating agent from JFC. Because the mineral oil impairs the respiration of the insect and enhances penetration of the agrochems., the insecticide and miticide is highly effective against insects.

IT 33089-61-1, Amitraz  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (mineral oil-containing insecticide and miticide for protecting plant)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:824048 HCAPLUS  
 DOCUMENT NUMBER: 133:345923  
 TITLE: Mixtures of **surfactants** used as wetting agents and/or emulsifiers in agrochemical preparations  
 INVENTOR(S): Fornara, Dario; Bohus, Peter; Colombo, Alberto  
 PATENT ASSIGNEE(S): Lamberti S.p.A., Italy  
 SOURCE: PCT Int. Appl., 22 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000069261	A1	20001123	WO 2000-EP4375	20000516 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
IT 99MI1086	A1	20001120	IT 1999-MI1086	19990518 <--
IT 1312111	B1	20020404		
CA 2373480	AA	20001123	CA 2000-2373480	20000516 <--
EP 1179979	A1	20020220	EP 2000-931220	20000516 <--
EP 1179979	B1	20030205		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
AT 232045	E	20030215	AT 2000-931220	20000516
PT 1179979	T	20030630	PT 2000-931220	20000516
ES 2191624	T3	20030916	ES 2000-931220	20000516
AU 768291	B2	20031204	AU 2000-49219	20000516
US 6617301	B1	20030909	US 2001-979760	20011124
PRIORITY APPLN. INFO.:			IT 1999-MI1086	A 19990518
			WO 2000-EP4375	W 20000516

OTHER SOURCE(S): MARPAT 133:345923

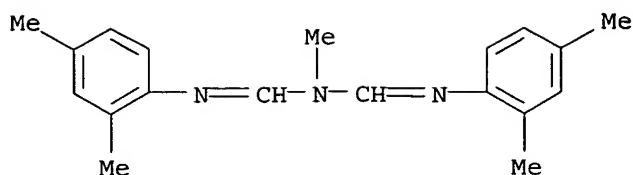
AB **Surfactant** mixture to be used as wetting and/or emulsifying agents in pesticide agrochem. compns. comprises: (a) a alkylpolyglucoside R-O-Gx, (b) an anionic derivative of alkylpolyglucoside (R-O-Gx)n-Dy, and (c) an anionic derivative of a fatty alc. R-O-D [R C6-20 (un)saturated, (un)branched aliphatic group; G = reduced saccharide residue; D = acyl residue of a (un)saturated, (un)branched, (un)substituted carboxylic acid having a C2-8 aliphatic chain, in which at least one carboxylic group is salified or in acid form.; x = 1-10; n = 1 - (m-1), where m = number of carboxylic groups in the acid that originates D; y = 1-10],.

IT 33089-61-1, Amitraz

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (mixts. of **surfactants** used as wetting agents/emulsifiers in agrochem. prepns. containing)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 5 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:342678 HCAPLUS  
 DOCUMENT NUMBER: 132:318919  
 TITLE: Manufacture of long lasting household insecticide  
 INVENTOR(S): Bai, Zhixin  
 PATENT ASSIGNEE(S): Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1214863	A	19990428	CN 1998-117568	19980825 <--
CN 1120661	B	20030910		

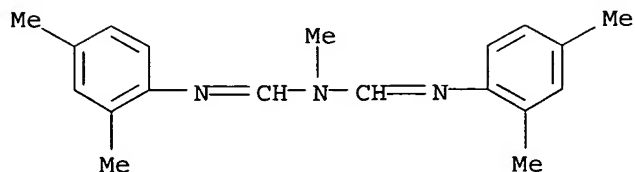
PRIORITY APPLN. INFO.: CN 1998-117568 19980825

AB The insecticide comprises organic solvent 3.0-5.0%, water 80-95%, **surfactant** 0.5-4.0%, organic contact insecticide (non-organophosphorus insecticide) 2.9-5.5%, synergist 0.05-0.5%, antioxidant 0.1-2.0%, UV absorbent 0.8-6.0%, high temperature-tolerant agent 0.05-7.5%, alkali-resistant substance (citric acid or HCl) 2.0-4.0%, light stabilizer 0.2-0.5%, and addnl. essence. The organic contact insecticide is selected from Me carbamate, neo-pynamin forte, prallethrin, phenothrin, bifenthrin, tau-fluvalinate, shachongshuang, phosfolan, chlordimeform, amitraz, diflubenzuron, fufuchongmi, pyridaben, hexythiazox, and buprofezin.

IT 33089-61-1, Amitraz  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (manufacture of long lasting household insecticide)

RN 33089-61-1 HCAPLUS

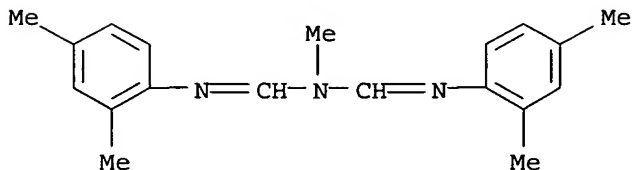
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:84539 HCAPLUS  
 DOCUMENT NUMBER: 132:104096  
 TITLE: Water-free concentrate of amitraz insecticide and

clear pour-on formulations thereof  
 INVENTOR(S): Narayanan, Kolazi S.; Jon, Domingo; Prettypaul, Donald  
 PATENT ASSIGNEE(S): Isp Investments Inc., USA  
 SOURCE: PCT Int. Appl., 15 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000004771	A1	20000203	WO 1999-US9981	19990507 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6024972	A	20000215	US 1998-121072	19980721 <--
AU 9939740	A1	20000214	AU 1999-39740	19990507 <--
AU 752907	B2	20021003		
BR 9912116	A	20010502	BR 1999-12116	19990507 <--
EP 1098564	A1	20010516	EP 1999-922835	19990507 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
NZ 509083	A	20020927	NZ 1999-509083	19990507
PRIORITY APPLN. INFO.:			US 1998-121072	A 19980721
			WO 1999-US9981	W 19990507
AB A water-free concentrate comprising by weight: (a) 3-20 % amitraz, optionally with other agricultural chems., for example, a pyrethroid; (b) 30-80 % nonionic surfactant having an HLB <17; and (c) 5-30 % C1-C8 alkylpyrrolidone solvent. Clear, pour-on formulations of about 5-60 % by weight of the concentrate and 40-95 % of an oil are described.				
IT 33089-61-1, Amitraz RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (water-free concentrate of amitraz for pour-on formulations)				
RN 33089-61-1 HCAPLUS				
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl-N-methyl- (9CI) (CA INDEX NAME)				



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1999:565866 HCAPLUS  
 DOCUMENT NUMBER: 131:166532



TITLE: Storing pesticides in a water-soluble package  
 INVENTOR(S): Xie, Min; Rosa, Fred Carl; Mote, Jackie  
 PATENT ASSIGNEE(S): Uniroyal Chemical Company, Inc., USA; Gustafson, Inc.  
 SOURCE: PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

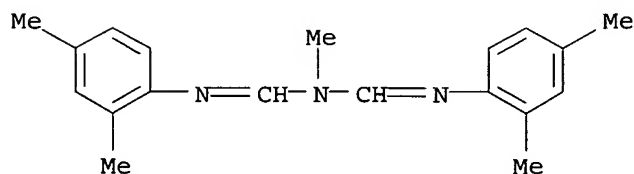
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943206	A1	19990902	WO 1999-US3102	19990212 <--
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, DE, EE, ES, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SD, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2285202	AA	19990902	CA 1999-2285202	19990212 <--
AU 9932922	A1	19990915	AU 1999-32922	19990212 <--
PRIORITY APPLN. INFO.:			US 1998-30287	A 19980225
			WO 1999-US3102	W 19990212

AB A system and method are provided for storing an active ingredient such as a pesticide or other type of agricultural chemical in a water soluble package. The active ingredient is incorporated in a storage formulation including a hydrophilic, nonaq. solvent, which is capable of dissolving the active ingredient, but not the water soluble package. The storage formulation optionally includes additives such as gelling agents, **surfactants** and/or antifoaming agents.

IT **33089-61-1**, Amitraz  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (storing pesticides in a water-soluble package)

RN **33089-61-1** HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

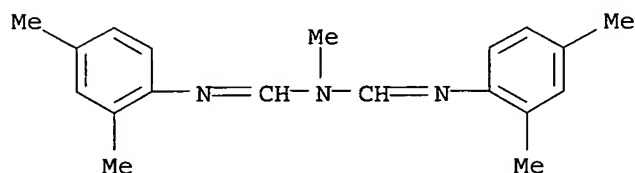
L33 ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1999:265920 HCAPLUS  
 DOCUMENT NUMBER: 130:278025  
 TITLE: Stabilized concentrates of water-unstable aza pesticides and oil/water miniemulsions thereof  
 INVENTOR(S): Jon, Domingo I.; Prettypaul, Donald I.; Benning, Matthew J.; Narayanan, Kolazi S.; Ianniello, Robert M.  
 PATENT ASSIGNEE(S): ISP Investments Inc., USA  
 SOURCE: PCT Int. Appl., 25 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9919256	A2	19990422	WO 1998-US21462	19981009 <--
WO 9919256	A3	19990624		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9897993	A1	19990503	AU 1998-97993	19981009 <--
EP 1027288	A2	20000816	EP 1998-952245	19981009 <--
EP 1027288	B1	20030903		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6255350	B1	20010703	US 1998-169697	19981009 <--
AT 248773	E	20030915	AT 1998-952245	19981009
PRIORITY APPLN. INFO.:				
			US 1997-61944P	P 19971014
			WO 1998-US21462	W 19981009

AB This invention relates to a single-phase emulsifiable concentrate composition comprising: (a) 0.05-25 weight% of a fungicidal and/or herbicidal aza compound; (b) 2-40 weight% of a lactam selected from N-methylpyrrolidone, N-methylcaprolactam, a C8-18 alkylpyrrolidone, and/or a C8-18 caprolactam; (c) 2-20 weight% of a moisture-scavenging agent selected from a liquid molecularly-hindered carbodiimide and/or a mol. sieve; and (d) 10-80 weight% of a mixture of  $\geq 2$  nonionic **surfactants**, having a hydrophilic/lipophilic balance  $> 7$ . The invention also relates to the stable oil-in-water miniemulsions prepared from the above by dilution to 40-99.99 weight% water for a pour-on, dip or spray solution useful in the treatment of animals or plants.

IT **33089-61-1**, Amitraz  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (stabilized concs. and oil/water miniemulsions of)  
 RN **33089-61-1** HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1998:734965 HCAPLUS  
 DOCUMENT NUMBER: 130:1335  
 TITLE: Latex-based pesticidal compositions of incompatible ingredients.  
 INVENTOR(S): Smith, Geoffrey W.; Mulqueen, Patrick J.; Paterson, Eric S.; Cuffe, John

PATENT ASSIGNEE(S): Dow Agrosciences LLC, USA  
 SOURCE: U.S., 10 pp., Cont. of U.S. Ser. No. 469,427.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

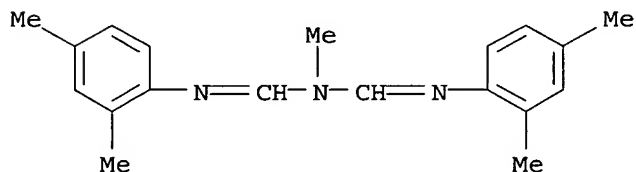
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5834006	A	19981110	US 1991-790729	19911108 <--
PRIORITY APPLN. INFO.:			US 1990-469427	A1 19900405

AB An agricultural composition, for example, a herbicidal, insecticidal or fungicidal composition, comprising at least a first active pesticidal component, and at least one other active component, the other active component being physicochem., chemical, or biol. incompatible with the first pesticidal component. The composition is in the form of a latex dispersion, containing at least one emulsifying **surfactant** and having a continuous aqueous phase, and at least a first dispersed phase. The first dispersed phase contains particles derived from a latex, and the first pesticidal component is present in the composition wholly within the first dispersed phase. The other active ingredient is present within the continuous phase, or within a second dispersed phase. Suitable polymer latexes are Vinamul 3452, Dow Latex DL420, Dow Latex DL893, etc.

IT 33089-61-1, Amitraz  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (latex-based compns. of incompatible pesticides)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

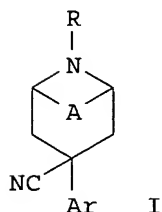
L33 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1998:385481 HCAPLUS  
 DOCUMENT NUMBER: 129:37517  
 TITLE: Insecticidal composition for control of resistant insects  
 INVENTOR(S): Clough, Martin Stephen; Earley, Fergus Gerard Paul; Dunbar, Stuart John  
 PATENT ASSIGNEE(S): Zeneca Limited, UK; Clough, Martin Stephen; Earley, Fergus Gerard Paul; Dunbar, Stuart John  
 SOURCE: PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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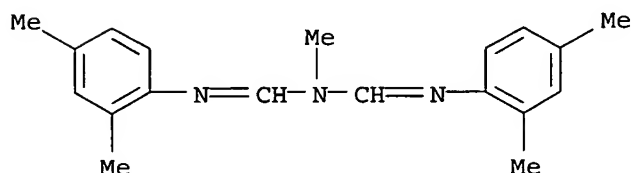
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    KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
    PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
    US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW:  GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
    GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
    GN, ML, MR, NE, SN, TD, TG
CA 2271747          AA      19980604      CA 1997-2271747          19971106 <--
AU 9748763          A1      19980622      AU 1997-48763           19971106 <--
EP 944319           A1      19990929      EP 1997-911351         19971106 <--
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    IE, FI
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CN 1245397          A       20000223      CN 1997-181510         19971106 <--
SI 20002            C       20000229      SI 1997-20085           19971106 <--
NZ 335421           A       20001124      NZ 1997-335421         19971106 <--
JP 2001504511       T2      20010403      JP 1998-524385         19971106 <--
AP 1068             A       20020513      AP 1999-1537           19971106
W:   GM, GH, KE, LS, MW, SL, SD, SZ, UG, ZW
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):    MARPAT 129:37517
GI

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- AB An insecticidal composition comprising a first insecticide, to which insect pests have developed resistance, an inert carrier or **diluent** and, optionally, one or more surface active agents. The composition further contains I [A = CH<sub>2</sub>CH<sub>2</sub> or CH=CH; Ar = Ph, pyridinyl, pyridazinyl or pyrazinyl, all being optionally substituted with halogen, C1-4 alkyl, C1-4 alkoxy, C2-4 alkenyl, C2-4 alkynyl or cyano; R = H, C1-4 alkyl (optionally substituted with cyano, CO<sub>2</sub>(C1-4 alkyl) or Ph (itself optionally substituted with halogen, C1-4 alkyl, C1-4 alkoxy, C1-4 haloalkyl or C1-4 haloalkoxy)), C2-4 haloalkyl (the α-carbon being unsubstituted), C3-4 alkenyl or C3-4 alkynyl; provided that when R is alkenyl or alkynyl, it does not have an unsatd. carbon atom bonding directly to the ring N] or an acid addition salt, quaternary ammonium salt or N-oxide derived from I, to boost the activity of the composition to overcome the resistance of the insect pests. The composition is useful against resistant acarids and nematodes, as well.
- IT 33089-61-1D, Amitraz, mixts. with azabicyclooctane derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (insecticidal composition for control of resistant insects)
- RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 11 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:86632 HCAPLUS

DOCUMENT NUMBER: 126:128243

TITLE: Possibilities of azadirachtin and salts of dioctylsulfosuccinate for the control of *Psylla pyri*, *Tetranychus urticae* and *Tarsonemus pallidus*

AUTHOR(S): Bylemans, Dany; Van Goethem, Luk

CORPORATE SOURCE: Royal Res. Station Gorseme, Sint-Truiden, B-3800, Belg.

SOURCE: Mededelingen - Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen (Universiteit Gent) (1996), 61(3a), 871-876

CODEN: MFLBER

PUBLISHER: Universiteit Gent, Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Field trials were carried out on the pear sucker, *Psylla pyri*, and the strawberry mite, *Tarsonemus pallidus*. Glasshouse trials were executed on *Tetranychus urticae*. Azadirachtin and potassium dioctylsulfosuccinate were very effective for the control of *P. pyri*. Especially the action on older larval stages was superior to the known standard compound amitraz. A double application of a tank mix of amitraz and sodium dioctylsulfosuccinate controlled a population of *T. pallidus* at an acceptable degree, whereas the action of amitraz on its own was insufficient. The tests on *T. urticae*, which were executed on a strain that was less susceptible to mitochondrial electron transport inhibitors, indicated that azadirachtin and potassium dioctylsulfosuccinate have potent acaricidal activities. When these compds. were combined in a tank mix or with existing acaricides, a very good control of *T. urticae* was realized.

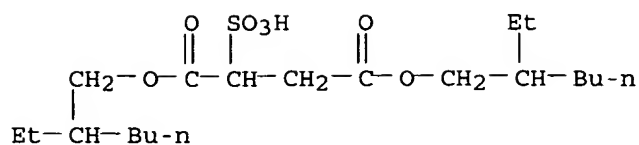
IT 577-11-7, Sodium dioctylsulfosuccinate

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(*Psylla pyri*, *Tetranychus urticae* and *Tarsonemus pallidus* control by)

RN 577-11-7 HCAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

IT 186452-68-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(Tarsonemus pallidus control by)

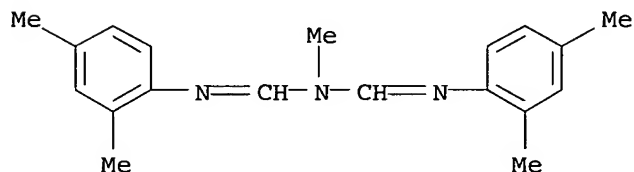
RN 186452-68-6 HCAPLUS

CN Butanedioic acid, sulfo-, 1,4-dioctyl ester, sodium salt, mixt. with  
N'-(2,4-dimethylphenyl)-N-[[[(2,4-dimethylphenyl)imino]methyl]-N-  
methylmethanimidamide (9CI) (CA INDEX NAME)

CM 1

CRN 33089-61-1

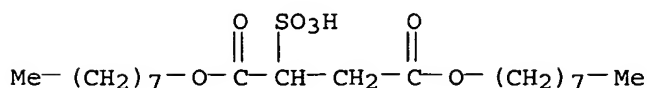
CMF C19 H23 N3



CM 2

CRN 1639-66-3

CMF C20 H38 O7 S . Na



● Na

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 12 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:433098 HCAPLUS

DOCUMENT NUMBER: 125:107722

TITLE: Field and greenhouse performance of Mustang 1.5 EW and  
Capture 2EC on immature and adult whitefly

AUTHOR(S): McKenzie, C. L.; Toscano, N. C.; Beehler, L.

CORPORATE SOURCE: FMC Corporation, Yuma, AZ, USA

SOURCE: Proceedings - Beltwide Cotton Conferences (1996), (Vol. 2), 810-816  
 CODEN: PCOCEN; ISSN: 1059-2644  
 PUBLISHER: National Cotton Council  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Greenhouse studies were conducted to determine the most vulnerable whitefly stage to various pyrethroid treatment regimes and to determine if differences in insecticide efficacy are due to speed of kill. The order of immature whitefly susceptibility overall was crawler to second instar > egg hatch to crawler > 3rd-4th instar to redeye nymph. All insecticide treatments tested appeared to take approx. the same length of time to take lethal action. Small plot field trials were conducted in 1994 to evaluate season long control of whitefly with competitive pyrethroid combinations and in 1995 to compare the efficacy of rotating nonpyrethroid and pyrethroid insecticide combinations with continuous pyrethroid insecticide treatment regimes. Large field plots also established in 1995 determined Mustang 1.5 EW whitefly efficacy improves  $\pm$  5% when a **surfactant** is added (CSO or Bivert) or the rate of Orthene is increased (2X) in insecticide tank mixts. applied by air.

IT 70162-20-8  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (insecticides against immature and adult whitefly)

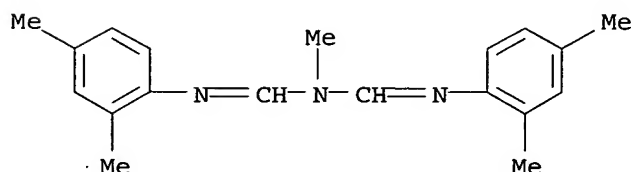
RN 70162-20-8 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl-, mixt. with 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide (9CI) (CA INDEX NAME)

CM 1

CRN 33089-61-1

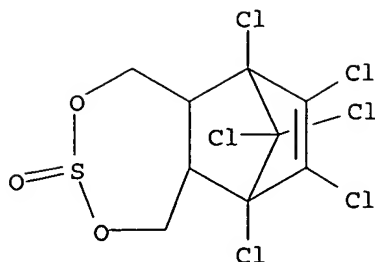
CMF C19 H23 N3



CM 2

CRN 115-29-7

CMF C9 H6 Cl6 O3 S



L33 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:47962 HCAPLUS

DOCUMENT NUMBER: 120:47962

TITLE: The microimmersion bioassay: a novel method for the topical application of pesticides to spider mites

AUTHOR(S): Dennehy, Timothy J.; Farnham, Andrew W.; Denholm, Ian

CORPORATE SOURCE: Dep. Entomol., Cornell Univ., Geneva, NY, 14456, USA

SOURCE: Pesticide Science (1993), 39(1), 47-54

CODEN: PSSCBG; ISSN: 0031-613X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A novel and versatile method is described for measuring the contact activity of acaricides against spider mites. The microimmersion (MI) bioassay involves drawing batches of 25 mites into small pipet tips under vacuum, immersing them for 30 s in 35  $\mu$ L of a test solution, and then confining the treated subjects on clean foliage in holding cells. Evaluations of amitraz, bifenthrin, chlorpyrifos, and dicofol against susceptible strains of Tetranychus urticae Koch showed the MI bioassay to be equally applicable to formulated and tech. acaricides (the latter dissolved in acetone + distilled water; 20 + 80 by volume), and to give LC50 values that corresponded well with those from a conventional residual bioassay. The most important difference between bioassay methods was the consistently greater slope of probit lines from MI tests. Results were not highly sensitive to varying the immersion period between 15 and 60 s, and low control mortality was observed with ethanol or acetone concns. of up to 500 mL/L, and **surfactant** concns. of up to 10 g/L. The potential of this method for assessing the relative toxicity of both fast- and slow-acting acaricides, screening small quantities of exptl. compds. for acaricidal activity, and improving the laboratory procedure for selection and characterization of acaricide resistance is discussed.

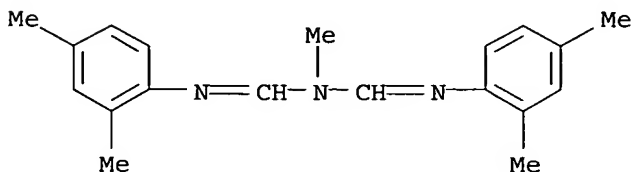
IT 33089-61-1, Amitraz

RL: PROC (Process)

(against spider mites, microimmersion bioassay of)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)





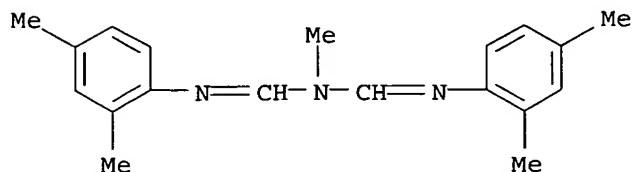
L33 ANSWER 14 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:159169 HCAPLUS  
 DOCUMENT NUMBER: 114:159169  
 TITLE: Agrochemical or biocidal suspensions  
 INVENTOR(S): Lambie, Alan James; Akred, Brian John; Nicholson, William John; Newton, Jill Elisabeth  
 PATENT ASSIGNEE(S): Albright and Wilson Ltd., UK  
 SOURCE: Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

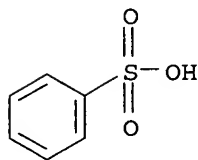
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 388239	A1	19900919	EP 1990-302891	19900316 <--
EP 388239	B1	19950111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
IL 93726	A1	19941007	IL 1990-93726	19900313 <--
ZA 9001960	A	19901228	ZA 1990-1960	19900314 <--
HU 56236	A2	19910828	HU 1990-1575	19900314 <--
HU 215709	B	19990201		
RO 110289	B1	19951229	RO 1990-144466	19900315 <--
SK 280019	B6	19990712	SK 1990-1255	19900315 <--
CZ 286754	B6	20000614	CZ 1990-1255	19900315 <--
CA 2012382	AA	19900917	CA 1990-2012382	19900316 <--
CA 2012382	C	19991207		
NO 9001236	A	19900918	NO 1990-1236	19900316 <--
NO 178212	B	19951106		
NO 178212	C	19960214		
AU 9051438	A1	19900920	AU 1990-51438	19900316 <--
AU 634524	B2	19930225		
GB 2229634	A1	19901003	GB 1990-5925	19900316 <--
GB 2229634	B2	19920826		
JP 02289502	A2	19901129	JP 1990-66710	19900316 <--
JP 2537558	B2	19960925		
PL 164674	B1	19940930	PL 1990-284340	19900316 <--
ES 2071012	T3	19950616	ES 1990-302891	19900316 <--
FI 103749	B1	19990930	FI 1990-1331	19900316 <--
CN 1045682	A	19901003	CN 1990-102296	19900317 <--
BR 9001260	A	19910326	BR 1990-1260	19900319 <--
DD 292830	A5	19910814	DD 1990-338857	19900319 <--
US 6200586	B1	20010313	US 1997-850648	19970502 <--
PRIORITY APPLN. INFO.:			GB 1989-6234	A 19890317
			US 1990-491298	B1 19900309
			CS 1990-1255	A 19900315
			US 1991-737589	B1 19910725
			US 1993-45909	B1 19930412
			US 1994-183226	B1 19940118
			US 1994-345007	B1 19941123
			US 1995-446042	B1 19950519
			US 1996-693581	B1 19960801

AB Insol. pesticides are suspended in aqueous structured surfactant systems. In these systems, the surfactants form mesophases comprising structures larger than conventional spherical micelles, which interact to confer thixotropic properties. The systems also comprise a surfactant-desolubilizing electrolyte. A suspension comprised ethofumesate 40.0, NaNO<sub>2</sub> 1.2, cocomonoethanolamide 2.1, linear C12 alkyl benzenesulfonate 5.2, silicone defoamer 0.1, and water 51.4%.

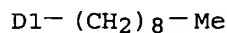
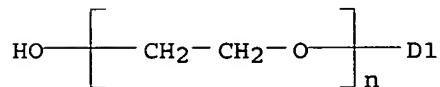
IT 33089-61-1, Amitraz  
 RL: PROC (Process)  
 (pesticide suspension formulation of)  
 RN 33089-61-1 HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., sodium salts  
 9016-45-9, Nonyl phenyl ethoxylate  
 RL: BIOL (Biological study)  
 (pesticidal suspensions containing)  
 RN 98-11-3 HCAPLUS  
 CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy- (9CI)  
 (CA INDEX NAME)



L33 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1991:116943 HCAPLUS  
 DOCUMENT NUMBER: 114:116943  
 TITLE: Alkyl carbonate potassium and sodium salts as stabilizers for solid forms of amitraz  
 INVENTOR(S): Sledzinski, Bohdan  
 PATENT ASSIGNEE(S): Instytut Przemyslu Organicznego, Pol.  
 SOURCE: Pol., 3 pp.

DOCUMENT TYPE: CODEN: POXXA7  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: Polish  
 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 148875	B1	19891230	PL 1987-264828	19870325 <--
PRIORITY APPLN. INFO.:			PL 1987-264828	19870325
OTHER SOURCE(S): MARPAT 114:116943				

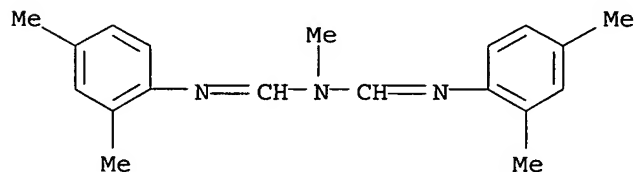
AB The title carbonates are present at 0.05-5 weight %, along with other components such as **surfactants**, antioxidants, etc. They are especially useful for formulations containing amitraz (I) 0.1-10 weight %.

Tablets were formed from I 1.7, K Et carbonate 1.4, sawdust 58.2, KClO<sub>3</sub> 19.4, and dextrin 19.3 weight parts.

IT 33089-61-1, Amitraz  
 RL: BIOL (Biological study)  
 (solid, alkyl carbonate potassium and sodium salts as stabilizers for)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 16 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:116929 HCAPLUS

DOCUMENT NUMBER: 114:116929

TITLE: Nonphospholipid liposomes for encapsulation of parasiticides

INVENTOR(S): Wallach, Donald F. H.

PATENT ASSIGNEE(S): Micro Vesicular Systems, Inc., USA

SOURCE: PCT Int. Appl., 44 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

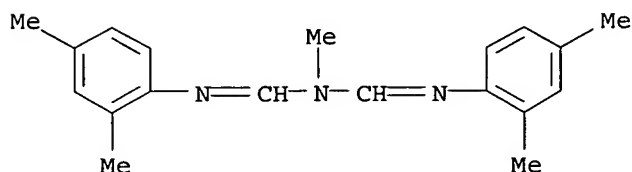
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9006747	A1	19900628	WO 1989-US5668	19891218 <--
W: AU, BB, BR, DK, FI, HU, JP, KR, MW, NO, SD, SE, SU				
RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, ES, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
US 5019392	A	19910528	US 1988-286731	19881220 <--
AU 9049446	A1	19900710	AU 1990-49446	19891218 <--
AU 633540	B2	19930204		
EP 449983	A1	19911009	EP 1990-901986	19891218 <--
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
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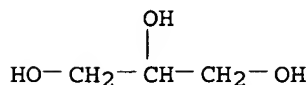
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CA 2006251 AA 19900620 CA 1989-2006251 19891220 <--  
CA 2062726 AA 19901227 CA 1990-2062726 19900613 <--  
WO 9100084 A1 19910110 WO 1990-US3339 19900613 <--  
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RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE  
AU 9059471 A1 19910117 AU 1990-59471 19900613 <--  
PRIORITY APPLN. INFO.: US 1988-286731 A 19881220  
US 1987-25525 B2 19870313  
US 1987-78658 A2 19870728  
US 1987-124824 A2 19871124  
US 1988-157571 A2 19880303  
US 1989-371738 A 19890626  
WO 1989-US5668 A 19891218  
WO 1990-US3339 A 19900613  
AB Parasitocides (insecticides, acaricides, anthelmintics) are encapsulated into nonphospholipid lipid vesicles. The lipids include ethoxylated fatty esters or fatty acid ethers, long-chain acylamides or acyl amino acid amides, ethoxylated sorbitan oleates, etc. The vesicles may also include a steroid and a pos. or neg. charge-producing agent. The vesicles are either dispersed into an aqueous carrier or are dried and dispersed in an oily medium. A vesicle-forming solution comprised Brij-52 33, cholesterol 11 and palmitate 1.5 parts. The solution was mixed with cyhalothrin and water, at a 1:1:1 ratio, to give vesicles, which were suspended in water. In immersion tests, the mean lethal concentration against Boophilus microplus adults was 360 ppm, compared to 390 ppm for conventional cyhalothrin emulsion concentrate  
IT 33089-61-1, Amitraz  
RL: PROC (Process)  
(encapsulation of, in liposomes)  
RN 33089-61-1 HCAPLUS  
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



IT 31566-31-1, Glycerol monostearate  
RL: BIOL (Biological study)  
(liposomes containing, for encapsulation of parasitocides)  
RN 31566-31-1 HCAPLUS  
CN Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)  
CM 1  
CRN 57-11-4  
CMF C18 H36 O2

HO<sub>2</sub>C- (CH<sub>2</sub>)<sub>16</sub>-Me

CM 2

CRN 56-81-5  
CMF C3 H8 O3

L33 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

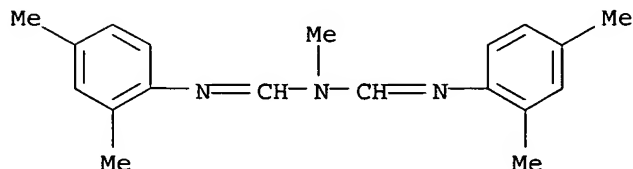
ACCESSION NUMBER: 1989:548942 HCAPLUS  
 DOCUMENT NUMBER: 111:148942  
 TITLE: Latex-based agricultural compositions  
 INVENTOR(S): Smith, Geoffrey William; Mulqueen, Patrick Joseph;  
 Paterson, Eric Simmers; Cuffe, John  
 PATENT ASSIGNEE(S): Dow Chemical Co., UK  
 SOURCE: PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8903176	A1	19890420	WO 1988-GB863	19881014 <--
W: JP, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
EP 381691	A1	19900816	EP 1988-909101	19881014 <--
EP 381691	B1	19921007		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 03501846	T2	19910425	JP 1988-508372	19881014 <--
JP 2813611	B2	19981022		
AT 81253	E	19921015	AT 1988-909101	19881014 <--
PRIORITY APPLN. INFO.:			GB 1987-24132	A 19871014
			GB 1987-24133	A 19871014
			GB 1988-17930	A 19880727
			EP 1988-909101	A 19881014
			WO 1988-GB863	W 19881014

AB An agricultural composition is given, comprising at least a first active pesticide component, and at least one other active component (pesticide or fertilizer). At least one of the other active component is physico-chemical, chemical or biol. incompatible with the first pesticidal component, the composition being in the form of an aqueous dispersion having a continuous aqueous phase, and at least a first dispersed phase. The composition comprises at least one emulsifying **surfactant** in an amount sufficient to render the composition water-dispersible. The first dispersed phase contains particles derived from a latex. The first pesticidal component is present in the composition wholly within the first dispersed phase, and the other at least one active ingredient is all present either in the continuous aqueous phase, or in a second dispersed phase, whereby the incompatibility is reduced or eliminated. A 3:1 mixture of fluroxypyr 1-methylheptyl ester and bifenox was mixed with 12 g Pluriol PE6100 and 4 g Pluriol PE6200 and stirred into 40 g styrene-Bu acrylate latex, followed by addition to a com. bifenox aqueous suspension concentrate (55.4 g) and dilution with water to 100 mL.

Applied to barley, at 200 L/ha, the composition showed only slight phytotoxicity. The pesticides were fungicides, insecticides or herbicides.

IT 33089-61-1, Amitraz  
 RL: BIOL (Biological study)  
 (agrochem. formulation containing, latex-based)  
 RN 33089-61-1 HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1989:492314 HCAPLUS  
 DOCUMENT NUMBER: 111:92314  
 TITLE: Microbicidal wettable compositions containing aggregation inhibitors  
 INVENTOR(S): Ubukata, Koji; Okamoto, Susumu; Takahashi, Gunji; Morimoto, Yoshiaki  
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63284105	A2	19881121	JP 1987-118780	19870518 <--
JP 2516015	B2	19960710		

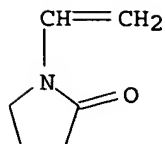
PRIORITY APPLN. INFO.: JP 1987-118780 19870518

AB A wettable composition is prepared containing zineb, maneb, manzeb, polycarbamate, and/or propineb, in addition to 0.2-0.4% by weight polyvinylpyrrolidone (caking inhibitor) and 0.5-3.0% by weight polyoxyalkylene alkylamine surfactants (mol. weight  $\geq 5000$ ). A wettable composition was prepared consisting of zineb 75, POE sorbitan fatty acid ester 3, a ligninsulfonic acid salt 3, polyvinylpyrrolidone 0.3, a polyoxyalkylene alkylamine surfactant (mol. weight 18,000) 2, and clay 16.7 parts by weight

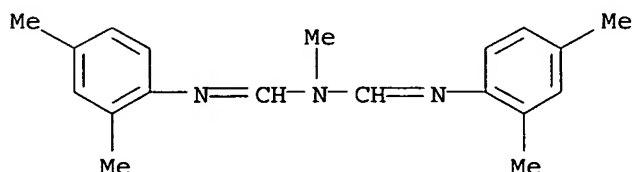
IT 9003-39-8, Polyvinylpyrrolidone  
 RL: BIOL (Biological study)  
 (microbicidal wettable composition containing, as caking inhibitor)  
 RN 9003-39-8 HCAPLUS  
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0  
 CMF C6 H9 N O



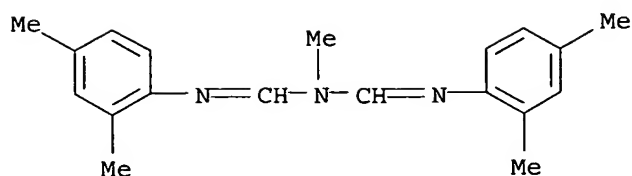
IT 33089-61-1  
 RL: BIOL (Biological study)  
 (pesticidal wettable formulations caking inhibitors and)  
 RN 33089-61-1 HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1987:133810 HCAPLUS  
 DOCUMENT NUMBER: 106:133810  
 TITLE: Stabilization of Amitraz preparations by alkaline earth metal oxides  
 INVENTOR(S): Tamogami, Kazuo  
 PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61238702	A2	19861024	JP 1985-79853	19850415 <--
JP 04082121	B4	19921225		

PRIORITY APPLN. INFO.: JP 1985-79853 19850415  
 AB Alkaline earth metal oxides are effective in stabilizing Amitraz prepns. Thus, 50 g of a composition containing Amitraz 20, **surfactant** 8, and xylene 72 parts was mixed with water 0.25 and BaO 3 g. The mixture was kept in a jar at 45° for 15 days. The decomposition rate of Amitraz was 0.01% vs. 36.8% for the control without BaO.  
 IT 33089-61-1, Amitraz  
 RL: PROC (Process)  
 (stabilization of, by alkaline earth metal oxide)  
 RN 33089-61-1 HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1985:57851 HCAPLUS  
 DOCUMENT NUMBER: 102:57851  
 TITLE: Pesticidal composition  
 INVENTOR(S): Baker, Rodney Cyril; Van Rensburg, Philippus Jansen  
 PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK  
 SOURCE: Brit. UK Pat. Appl., 4 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2139893	A1	19841121	GB 1984-11267	19840502 <--
ZA 8402938	A	19841224	ZA 1984-2938	19840418 <--
AU 8427142	A1	19841108	AU 1984-27142	19840419 <--
JP 59206301	A2	19841122	JP 1984-89190	19840502 <--
BR 8402055	A	19841211	BR 1984-2055	19840502 <--
EP 127773	A1	19841212	EP 1984-104939	19840502 <--

R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE

PRIORITY APPLN. INFO.: ZA 1983-3147 A 19830503

OTHER SOURCE(S): MARPAT 102:57851

AB An insecticidal composition which may be further diluted for use with a hand pump

spray or pressurized spray, or may be used as a dip wash for animals was prepared comprising an insecticide, emulsifier, and a self-disintegrating agent. Thus, a mixt of permethrin [52645-53-1] 10.7, phenylsulfonate CA 0.35, Tergitol XD 0.65, Luviskol K30 [9003-39-8] 8, H3BO3 4.9, tartaric acid 31.9, NaHCO3 43, and Silcolapse 0.5% was formulated as a tablet which when contacted with water effervesced and disintegrated within 2 min.

IT 9003-39-8 33089-61-1

RL: BIOL (Biological study)  
(insecticidal tablet formulation containing)

RN 9003-39-8 HCAPLUS

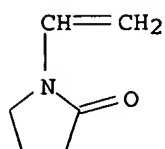
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

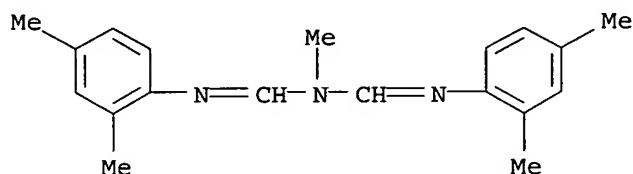
CRN 88-12-0

CMF C6 H9 N O





RN 33089-61-1 HCAPLUS  
 CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1983:410866 HCAPLUS  
 DOCUMENT NUMBER: 99:10866  
 TITLE: Aqueous back-moistening formulation  
 INVENTOR(S): Kieran, Peter John; Townsend, Robert Bruce; Hackney, Ronald James; Gayst, Stephen; Maguire, Michael John  
 PATENT ASSIGNEE(S): Wellcome Australia Ltd., Australia  
 SOURCE: Ger. Offen., 27 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3238525	A1	19830428	DE 1982-3238525	19821018 <--
AU 8289644	A1	19830428	AU 1982-89644	19811019 <--
AU 563723	B2	19870723		
US 4607050	A	19860819	US 1982-430884	19820930 <--
DK 8204614	A	19830420	DK 1982-4614	19821018 <--
DK 165354	B	19921116		
DK 165354	C	19930405		
FR 2515000	A1	19830429	FR 1982-17356	19821018 <--
FR 2515000	B1	19900223		
JP 58079901	A2	19830513	JP 1982-182664	19821018 <--
NL 8204018	A	19830516	NL 1982-4018	19821018 <--
NL 192289	B	19970106		
NL 192289	C	19970507		
GB 2109236	A1	19830602	GB 1982-29753	19821018 <--
GB 2109236	B2	19850515		
ZA 8207614	A	19830831	ZA 1982-7614	19821018 <--
BR 8206062	A	19830913	BR 1982-6062	19821018 <--
BE 904134	A7	19860515	BE 1986-216203	19860129 <--
PRIORITY APPLN. INFO.:			AU 1981-1217	A 19811019
			ZA 1982-7614	19821018

AB An aqueous back-moistening formulation for topical application to animals consists of an aqueous carrier and a water-insol. insecticide or parasiticide

suspended or disposed in the aqueous carrier and a dye. Application of this formulation decreases the skin reaction which occurs when nonaq. solvents are used. Thus, an aqueous suspension was prepared containing micronized decamethrin (Deltamethrin) [52918-63-5] 10.1, polyethylene oxide nonylphenyl ether [9016-45-9] 1.5, SiO<sub>2</sub> 5.0, Xantham rubber 4.0, propylene glycol 60.0, HCHO 1.0, silicone oil 0.1 g and H<sub>2</sub>O to 1 L. The particle size of the active agent was 2-5 μ. The activity of this aqueous formulation was demonstrated in sheep.

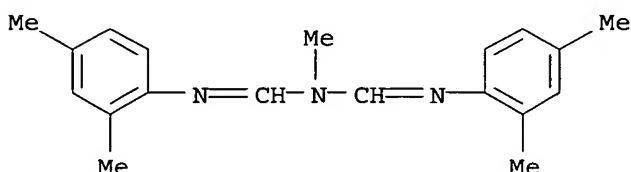
IT 33089-61-1

RL: BIOL (Biological study)

(aqueous back-moistening topical formulation containing, for animals)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



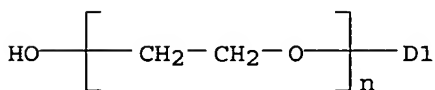
IT 9016-45-9

RL: BIOL (Biological study)

(aqueous back-moistening topical formulations containing insecticides or parasiticides and, for animals)

RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)



L33 ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:64200 HCAPLUS

DOCUMENT NUMBER: 96:64200

TITLE: Isothioureido isoindolediones and their use as plant growth regulators

INVENTOR(S): Kirkpatrick, Joel L.; Patel, Natu R.; Rutter, Jerry L.

PATENT ASSIGNEE(S): Gulf Oil Corp., USA

SOURCE: U.S., 16 pp. Cont.-in-part of U.S. Ser. No. 35,875, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

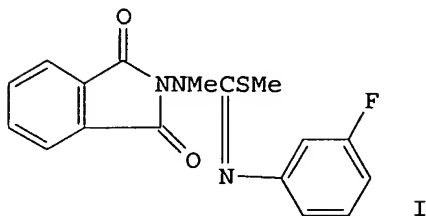
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4292071	A	19810929	US 1980-133888	19800410 <--
AU 8057560	A1	19801106	AU 1980-57560	19800417 <--
CA 1146547	A1	19830517	CA 1980-350314	19800421 <--
FI 8001378	A	19801104	FI 1980-1378	19800429 <--
BE 883066	A1	19801030	BE 1980-200430	19800430 <--
FR 2455581	A1	19801128	FR 1980-9875	19800430 <--
FR 2455581	B1	19830805		
GB 2049678	A	19801231	GB 1980-14259	19800430 <--
GB 2049678	B2	19830907		
JP 56005460	A2	19810120	JP 1980-56412	19800430 <--
AT 8002318	A	19810915	AT 1980-2318	19800430 <--
AT 366665	B	19820426		
HU 26085	O	19830928	HU 1980-1081	19800430 <--
DK 8001943	A	19801104	DK 1980-1943	19800501 <--
NL 8002545	A	19801105	NL 1980-2545	19800501 <--
BR 8002705	A	19801216	BR 1980-2705	19800502 <--
ES 491130	A1	19810416	ES 1980-491130	19800502 <--
ZA 8002665	A	19810527	ZA 1980-2665	19800502 <--
DD 151867	C	19811111	DD 1980-220842	19800502 <--
DD 159332	C	19830302	DD 1980-230461	19800502 <--
US 4362879	A	19821207	US 1981-243297	19810313 <--
PRIORITY APPLN. INFO.:			US 1979-35875	A2 19790503
			US 1980-133888	A 19800410

OTHER SOURCE(S): CASREACT 96:64200

GI



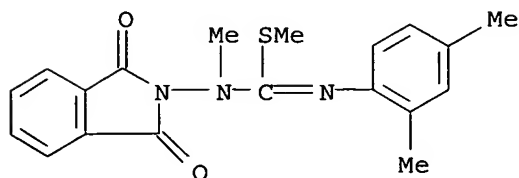
AB Substituted isothioureido isoindole-1,3-diones are plant growth regulators effective as pre- and postemergent herbicides, as defoliants, fruit set enhancers, and having other growth promoting activities. Thus, 2-[1,2-dimethyl-3-(3-fluorophenyl)isothioureido]-1H-isoindole-1,3-(2H)dione (I) [77671-46-6] defoliated cotton and controlled pigweed. The substituted isothioureido isoindole-1,3-diones are applied in compns. containing 0.1 to 95% active ingredient and 0.1 to 75% weight% inert carrier and **surfactant**. The preparation of these compds. is given.

IT 77671-50-2P 77671-54-6P 77671-57-9P  
77671-61-5P 77671-84-2P 77671-85-3P  
77672-47-0P 77672-49-2P 77672-60-7P  
77672-89-0P 77673-17-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and plant regulator activity of)

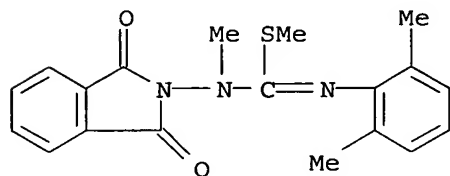
RN 77671-50-2 HCAPLUS

CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,4-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



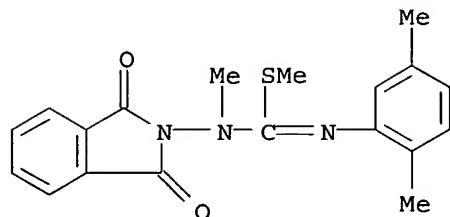
RN 77671-54-6 HCAPLUS

CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,6-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



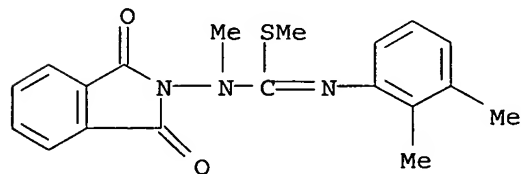
RN 77671-57-9 HCAPLUS

CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,5-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



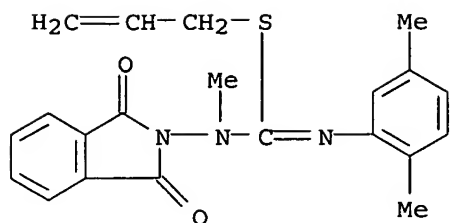
RN 77671-61-5 HCAPLUS

CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,3-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 77671-84-2 HCAPLUS

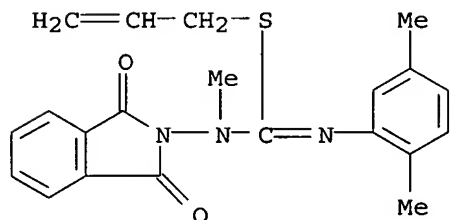
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,5-dimethylphenyl)-N-methyl-, 2-propenyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

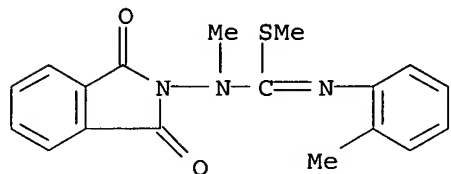
RN 77671-85-3 HCAPLUS

CN Carbamimidodithioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,5-dimethylphenyl)-N-methyl-, 2-propenyl ester (9CI) (CA INDEX NAME)



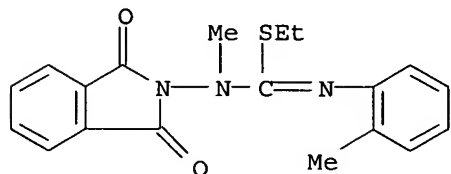
RN 77672-47-0 HCAPLUS

CN Carbamimidodithioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-N'-(2-methylphenyl)-, methyl ester (9CI) (CA INDEX NAME)



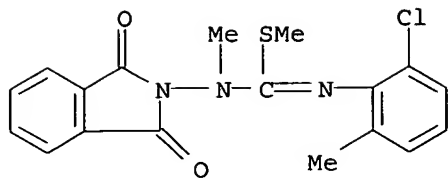
RN 77672-49-2 HCAPLUS

CN Carbamimidodithioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-N'-(2-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

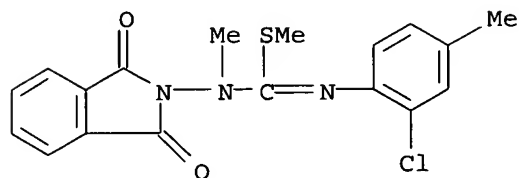


RN 77672-60-7 HCAPLUS

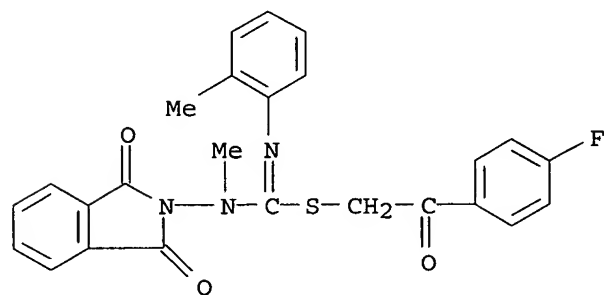
CN Carbamimidodithioic acid, N'-(2-chloro-6-methylphenyl)-N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 77672-89-0 HCAPLUS  
 CN Carbamimidodithioic acid, N'-(2-chloro-4-methylphenyl)-N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 77673-17-7 HCAPLUS  
 CN Carbamimidodithioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-N'-(2-methylphenyl)-, 2-(4-fluorophenyl)-2-oxoethyl ester (9CI) (CA INDEX NAME)



L33 ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1981:492371 HCAPLUS  
 DOCUMENT NUMBER: 95:92371  
 TITLE: Pesticidal compositions containing amitraz  
 INVENTOR(S): Mulqueen, Patrick Joseph  
 PATENT ASSIGNEE(S): Boots Co. Ltd., UK  
 SOURCE: Brit. UK Pat. Appl., 3 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2055045	A	19810225	GB 1980-25849	19800808 <--
PRIORITY APPLN. INFO.:			GB 1979-28030	A 19790811
AB Insecticidal and acaricidal compns. containing 10-80% amitraz {				

33089-61-1] together with dispersing and (or) wetting agents, and grinding agents and (or) solid diluents are stabilized by addition of 1.5-5% xanthate MS2COR (M = Na, K, Zn; R = C2-6 alkyl). Thus, a dispersible powder composition was prepared by grinding amitraz 50, KS2COEt [140-89-6] 3, Aerosol OT-B 1, Dyapol PT 10, diatomaceous earth 19%, and CaCO3 to balance in an air jet mill to give particle size 5-15 µm. During 4 mo storage at 50°, 6.6% of the amitraz decomposed compared with 27.4% decomposition in a similar composition omitting the xanthate.

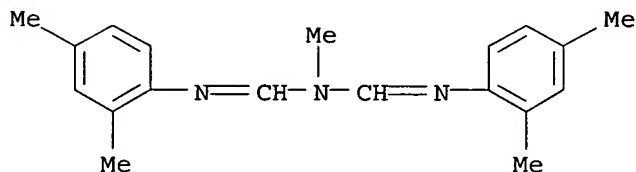
IT 33089-61-1

RL: BIOL (Biological study)

(pesticidal compns.-containing, xanthate stabilizer for)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[2,4-dimethylphenyl]imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:78454 HCAPLUS

DOCUMENT NUMBER: 94:78454

TITLE: Pesticidal compositions

INVENTOR(S): Palmer, Bryan Harper

PATENT ASSIGNEE(S): Boots Co. Ltd., UK

SOURCE: S. African, 14 pp.

CODEN: SFXXAB

DOCUMENT TYPE: Patent

LANGUAGE: English

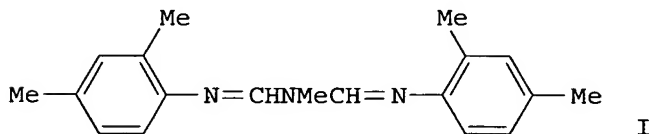
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 7903643	A	19800730	ZA 1979-3643	19790718 <--
AU 7949367	A1	19800221	AU 1979-49367	19790730 <--
AU 524292	B2	19820909		

PRIORITY APPLN. INFO.: GB 1978-33947 A 19780819

GI



AB Compns. containing amitraz (I) [33089-61-1] and the organophosphorus insecticides diazinon [333-41-5] or dioxathion [78-34-2] are synergistic pesticides. Thus, in laboratory tests against the cattle tick Boophilus microplus (Biarra strain), a composition containing I-diazinon mixture [76364-43-7] (1:10 in aqueous Me2CO +

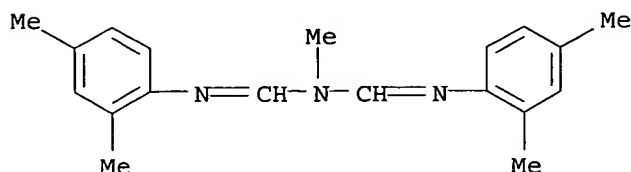
surfactant) was synergistically toxic (LD50 = 35.2 ppm). LD50 values for diazinon and I alone were >250 and 46.1 ppm, resp.

IT 33089-61-1 76364-43-7 76364-44-8

RL: BIOL (Biological study)  
(pesticidal compns. containing)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



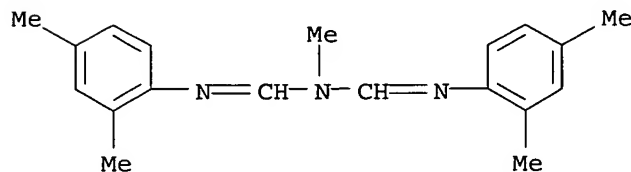
RN 76364-43-7 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester, mixt. with N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methylmethanimidamide (9CI) (CA INDEX NAME)

CM 1

CRN 33089-61-1

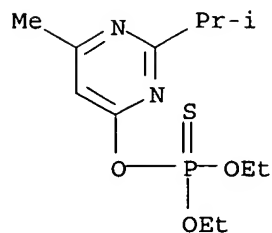
CMF C19 H23 N3



CM 2

CRN 333-41-5

CMF C12 H21 N2 O3 P S



RN 76364-44-8 HCAPLUS

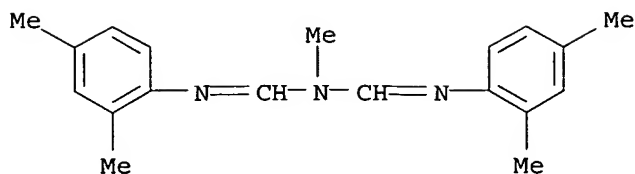
CN Phosphorodithioic acid, S,S'-1,4-dioxane-2,3-diyl O,O,O',O'-tetraethyl ester, mixt. with N'-(2,4-dimethylphenyl)-N-[[ (2,4-dimethylphenyl)imino]methyl]-N-methylmethanimidamide (9CI) (CA INDEX NAME)



CM 1

CRN 33089-61-1

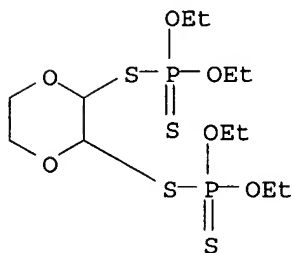
CMF C19 H23 N3



CM 2

CRN 78-34-2

CMF C12 H26 O6 P2 S4



L33 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1978:499744 HCAPLUS

DOCUMENT NUMBER: 89:99744

TITLE: Chemotherapeutically active nitro compounds.  
4.5-Nitroimidazoles. Part III

AUTHOR(S): Winkelmann, E.; Raether, W.

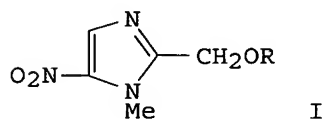
CORPORATE SOURCE: Hoechst A.-G., Frankfurt/Main, Fed. Rep. Ger.

SOURCE: Arzneimittel-Forschung (1978), 28(5), 739-49  
CODEN: ARZNAD; ISSN: 0004-4172

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Nitroimidazolemethanol derivs. I (R = substituted Ph, Bz, SO<sub>2</sub>Ph, pyridyl, N heterocyclic) (105 compds.) were prepared by substitution on chloromethylimidazoles or imidazolemethanols. Some I (R = aromatic) (9 compds.) were better than tinidazole and 29 compds. better than metronidazole (II) against all Trichomonas fetus in mice, and 9 compds.

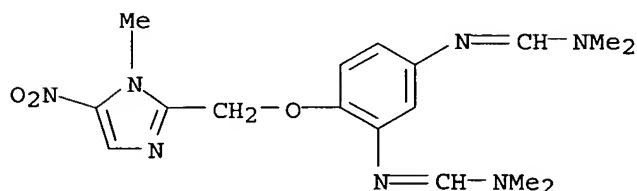
were superior to II against *Entamoeba histolytica* in hamsters. I (R = 4-Me<sub>2</sub>NCH<sub>2</sub>CONHC<sub>6</sub>H<sub>4</sub>) [67344-05-2] showed high activity against *Trypanosoma brucei* in mice and some other I were trypanocidal at high doses. Aromatic carbonic esters were protozoacidal and some compds. with pyridine substituents were trichomonacidal. Structure- activity relations are discussed.

IT 67343-86-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and protozoacidal activity of)

RN 67343-86-6 HCAPLUS

CN Methanimidamide, N',N'''-[4-[(1-methyl-5-nitro-1H-imidazol-2-yl)methoxy]-1,3-phenylene]bis[N,N-dimethyl-, trihydrochloride (9CI) (CA INDEX NAME)



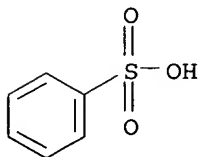
●3 HCl

IT 98-11-3, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with chloromethylimidazole derivs.)

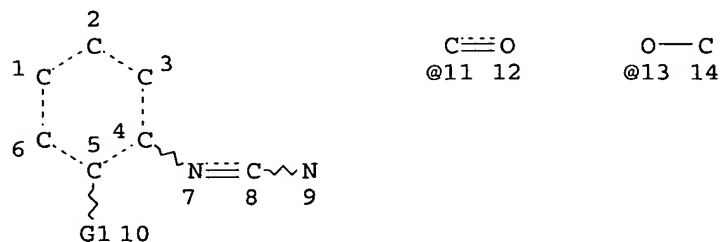
RN 98-11-3 HCAPLUS

CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



=> => d stat que 138

L1 STR



VAR G1=AK/X/CN/11/13/S/N/SI

NODE ATTRIBUTES:

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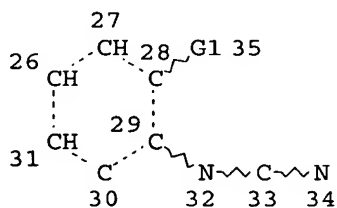
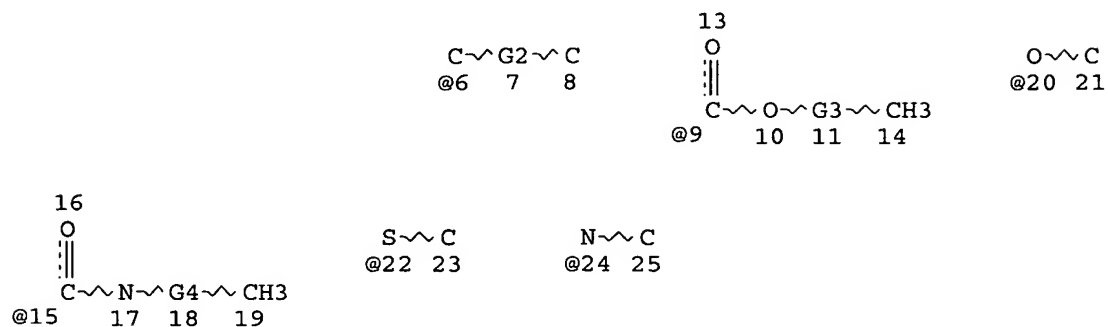
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1  
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

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L12 STR



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REP G4=(3-9) C

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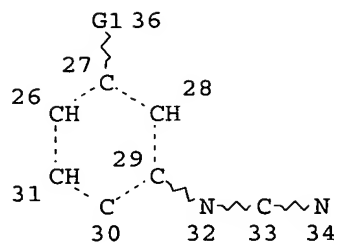
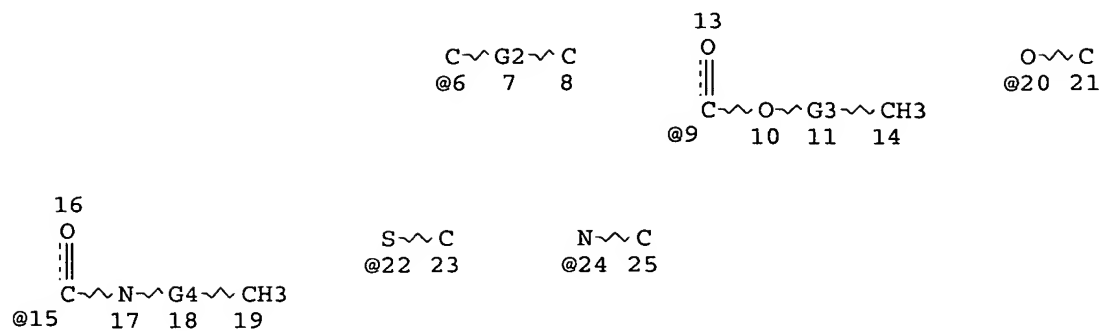
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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

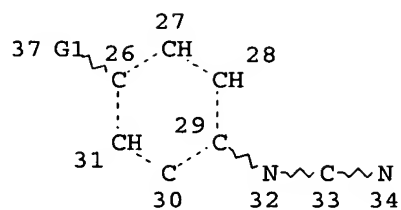
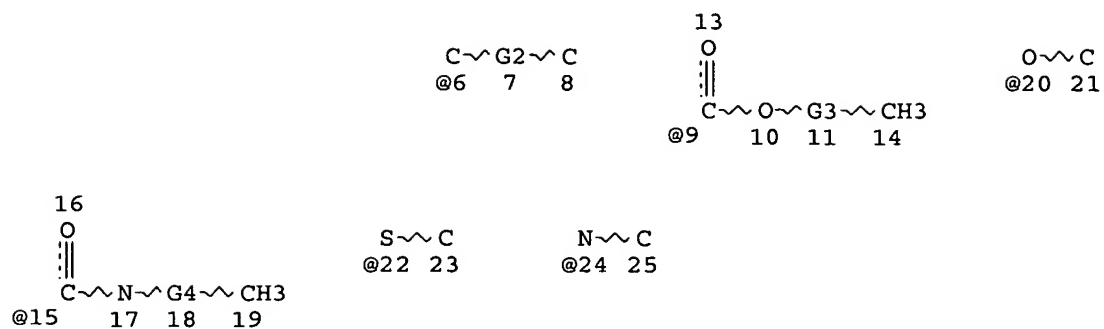
L13 STR



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 NSPEC IS RC AT 34  
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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 29

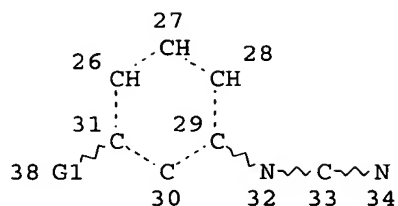
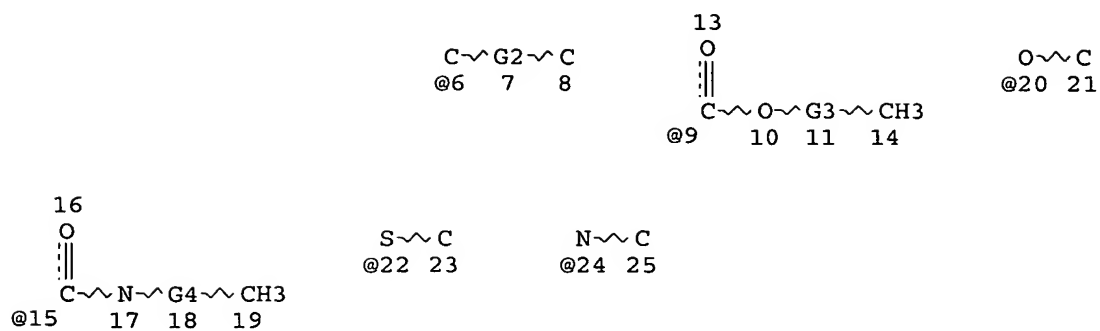
STEREO ATTRIBUTES: NONE  
 L14 STR



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 REP G2=(3-19) C  
 REP G3=(1-8) C  
 REP G4=(3-9) C  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 34  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE  
 L15 STR

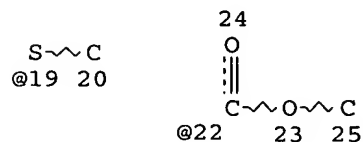
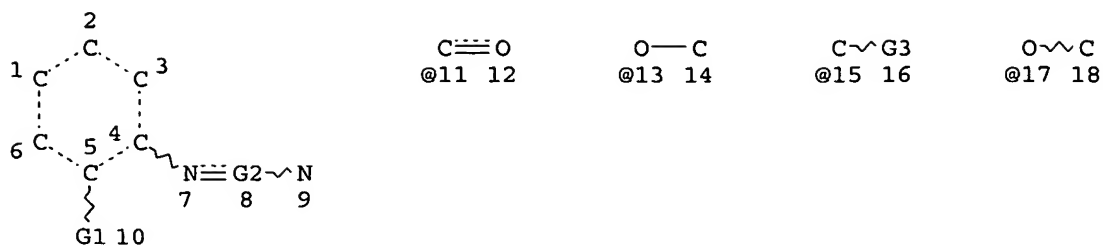


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 REP G3=(1-8) C  
 REP G4=(3-9) C  
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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

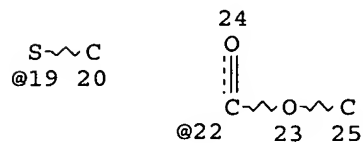
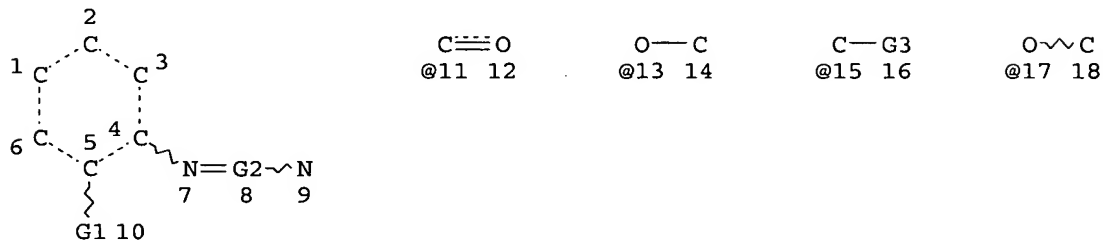
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 L17 8445 SEA FILE=REGISTRY SUB=L11 SSS FUL L13  
 L18 13078 SEA FILE=REGISTRY SUB=L11 SSS FUL L14  
 L19 3456 SEA FILE=REGISTRY SUB=L11 SSS FUL L15  
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 L21 STR



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 NODE ATTRIBUTES:  
 NSPEC IS RC AT 9  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE  
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 L23 STR



VAR G1=AK/X/CN/11/13/S/N/SI  
 VAR G2=CH/15  
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 NODE ATTRIBUTES:  
 NSPEC IS RC AT 9  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 24

## STEREO ATTRIBUTES: NONE

L24 1581 SEA FILE=REGISTRY SUB=L20 SSS FUL L23  
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 L26 1156 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND PD=<MAY 3, 2002  
 L27 104130 SEA FILE=HCAPLUS ABB=ON PLU=ON ("FUNGICIDES (L) AGROCHEM."/CV  
 OR "FUNGICIDES AND FUNGISTATS (L) AGROCHEM."/CV OR "AGRICULTUR  
 AL FUNGICIDES"/CV OR "AGROCHEM. FUNGICIDES"/CV OR "AGROCHEMICAL  
 FUNGICIDES"/CV) OR ?FUNGICID?  
 L28 23 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 (L) L27  
 L29 17 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND L28  
 L30 1043 SEA FILE=REGISTRY ABB=ON PLU=ON SURFACT? OR DILUENT?  
 L31 342901 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR SURFACT? OR DILUENT?  
 L32 25 SEA FILE=HCAPLUS ABB=ON PLU=ON L31 AND L26  
 L33 25 SEA FILE=HCAPLUS ABB=ON PLU=ON L32 NOT L29  
 L34 56366 SEA FILE=REGISTRY ABB=ON PLU=ON L22 NOT L24  
 L35 9951 SEA FILE=HCAPLUS ABB=ON PLU=ON L34  
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 (L29 OR L33)  
 L37 2241 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 AND L27  
 L38 31 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 AND L31

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L38 ANSWER 1 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:198076 HCAPLUS

DOCUMENT NUMBER: 136:243287

TITLE: Bactericidal composition

INVENTOR(S): Wang, Xianquan

PATENT ASSIGNEE(S): Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

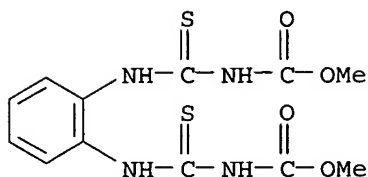
FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1311997	A	20010912	CN 2000-102842	20000307 <--
PRIORITY APPLN. INFO.:			CN 2000-102842	20000307

AB The title composition is composed of at least one of carbendazim, albendazole, benomyl, thiabendazole, thiophanate-Me, thiram and ziram, and at least one of 3-(4-X-substituted phenyl)-3-(3,4-dimethoxyphenyl)-acryloylmorpholine at ratio of 1:50-50:1. Filler, adjuvant and **surfactant** can be added to the composition. The bactericide is highly effective.  
 IT **23564-05-8**, Thiophanate-methyl  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic bactericidal/**fungicidal** composition containing acryloylmorpholine derivs.)  
 RN **23564-05-8** HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)





L38 ANSWER 2 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:66844 HCAPLUS

DOCUMENT NUMBER: 136:97849

TITLE: Light, extruded agricultural compositions containing a ceramic carrier for water surface application in paddy fields

INVENTOR(S): Takayanagi, Norikazu; Kimpapa, Masaomi; Suzuki, Munehiro

PATENT ASSIGNEE(S): American Cyanamid Co., USA

SOURCE: U.S., 8 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

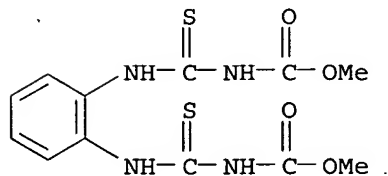
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6340656	B1	20020122	US 2000-501554	20000209 <--
PRIORITY APPLN. INFO.:			US 1999-119650P	P 19990211

AB The light, extruded compns. comprise at least one agricultural compound a light, extrudable, ceramic carrier, and at least one surface active agent. The composition may further comprise a mineral carrier and a binder. The composition is used for applying agricultural compds. to the water of paddy rice fields by localized application(s). Light, extruded pesticidal compns. containing a ceramic carrier for water surface application in paddy fields.

IT **23564-05-8**, Thiophanate-methyl  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (**fungicide** in light, extruded agricultural compns. containing ceramic carrier for water surface application in paddy fields)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

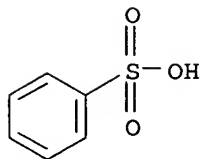
IT **98-11-3D**, Benzenesulfonic acid, alkyl derivs.

RL: MOA (Modifier or additive use); USES (Uses)

(**surfactant** in light, extruded agricultural compns. containing ceramic carrier for water surface application in paddy fields)

RN 98-11-3 HCAPLUS

CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 3 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:538589 HCAPLUS

DOCUMENT NUMBER: 135:206855

TITLE: Analysis of post-harvest **fungicides** by micellar electrokinetic chromatography

AUTHOR(S): Rodriguez, R.; Pico, Y.; Font, G.; Manes, J.

CORPORATE SOURCE: Facultat de Farmacia, Laboratorio de Bromatologia i Toxicologia, Universitat de Valencia, Valencia, 46100, Spain

SOURCE: Journal of Chromatography, A (2001), 924(1-2), 387-396

CODEN: JCRAEY; ISSN: 0021-9673

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A method based on solid-phase extraction (SPE) and micellar electrokinetic chromatog. (MEKC) was developed for the simultaneous determination of carbendazim,

imazalil, methylthiophanate, O-phenylphenol, prochloraz, procymidone, thiabendazole and triadimefon residues in grape, lettuce, orange and tomato. Selectivity and resolution were studied changing the pH and the concentration of the buffer, the type and concentration of **surfactant** and the methanol content in the mobile phase. A buffer consisting of 4 mM borate with 75 mM sodium cholate (pH 9.2) gave the best results. The recoveries of the **fungicides** in spiked fruit and vegetable samples ranged from 30 to 105%, and the limits of detection were between 0.1 and 1 mg kg<sup>-1</sup>. The reproducibility and repeatability of the combination of SPE pretreatment and MEKC were good for all the compds., except for imazalil and O-phenylphenol in oranges, due to some matrix compds. interfering with the separation. The method was applied to post harvest treated samples, and the **fungicides** were sometimes detected at concentration levels lower than maximum residue limits (MRLs).

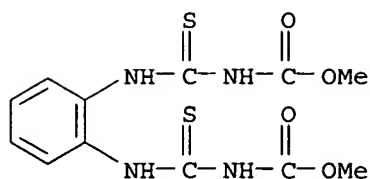
IT 23564-05-8, Methylthiophanate

RL: ANT (Analyte); BUU (Biological use, unclassified); POL (Pollutant); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(determination of post-harvest **fungicides** by micellar electrokinetic chromatog.)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 4 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:42039 HCAPLUS

DOCUMENT NUMBER: 134:67495

TITLE: Preparation of floating-type agrochemicals for rice field

INVENTOR(S): Xiao, Guoguang; Wang, Rong

PATENT ASSIGNEE(S): Changsha Inst. of Mining & Metallurgy, Ministry of Metallurgical Industry, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp. CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1252218	A	20000510	CN 1998-112697	19981026

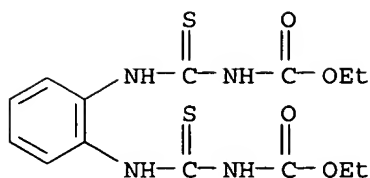
PRIORITY APPLN. INFO.: CN 1998-112697 19981026

AB The floating-type agrochems. comprises active component 0.1-50, synergist 0.1-20, and floating carrier 99.8-30%. The active component is selected from various agrochems., such as pesticides: fenitrothion, urbacid, carbaryl-BHC, parathion, dimethoate, phosmet, shachongshuang, carbamates, lambda-cyhalothrin, deltamethrin; herbicides: acetochlor, propisochlor, butachlor, quinclorac, bispyribac-sodium, bensulfuron-Me, metsulfuron-Me, pyrazosulfuron-Et, tribenuron-Me, imazosulfuron, fenclorim, fenchlorazole, fenoxaprop-Et; plant growth regulators: gibberellic acid, cytokinins, kinetin, mepiquat chloride, DCPTA; and **fungicides**: jinggangmycin and thiophanate etc. The synergist is selected from cyclodextrin, anilofos, etc. The floating carrier comprises carrier with apparent d. of less than 1, oily substance, **surfactant** and stabilizer. The carrier is selected from expanded perlite, vermiculite, zeolite, coal ash, macromol. foam material, pulverized maize core, etc.; the oily substance from paraffin oil, glyceryl ester, animal oil, vegetable oil, mineral oil, etc.; the **surfactant** from alkylsulfonate, alkyl sulfate, alkylbenzenesulfonate, etc.; and the stabilizer from BaSO<sub>4</sub>, CaSO<sub>4</sub>, KH<sub>2</sub>PO<sub>4</sub>, zeolite, etc. The process comprises mixing active component and synergist at 10-45°, milling, and mixing with floating carrier.

IT 23564-06-9, Thiophanate  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (preparation of floating-type agrochems. for rice field)

RN 23564-06-9 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, diethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 5 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:573601 HCAPLUS

DOCUMENT NUMBER: 133:173420

TITLE: Light, extruded pesticidal compositions containing a ceramic carrier for water surface application in paddy fields

INVENTOR(S): Takayanagi, Norikazu; Kimpara, Masaomi; Suzuki, Munehiro

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047044	A1	20000817	WO 2000-US3073	20000207 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2361532	AA	20000817	CA 2000-2361532	20000207 <--
AU 2000029833	A5	20000829	AU 2000-29833	20000207 <--
AU 768396	B2	20031211		
BR 2000008120	A	20011106	BR 2000-8120	20000207 <--
EP 1150562	A1	20011107	EP 2000-908506	20000207 <--
EP 1150562	B1	20040428		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002536385	T2	20021029	JP 2000-598004	20000207
NZ 513715	A	20030530	NZ 2000-513715	20000207
AT 265137	E	20040515	AT 2000-908506	20000207
PT 1150562	T	20040730	PT 2000-908506	20000207
ES 2219315	T3	20041201	ES 2000-908506	20000207
EG 22636	A	20030531	EG 2000-147	20000208
TW 557199	B	20031011	TW 2000-89102180	20000210
BG 105862	A	20020531	BG 2001-105862	20010831
ZA 2001007438	A	20021217	ZA 2001-7438	20010910
PRIORITY APPLN. INFO.:			US 1999-248859	A 19990211
			WO 2000-US3073	W 20000207

AB The light, extruded compns. comprise a pesticide, a light, extrudable, ceramic carrier and at least one surface active agent, and, optionally, a mineral carrier and a binder. The compds. are used for applying

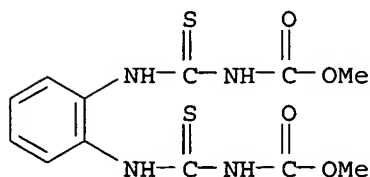
pesticides to the water surface of paddy rice fields.

IT 23564-05-8, Thiophanatemethyl

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(fungicide in light, extruded pesticidal compns. containing  
ceramic carrier for water surface application)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
(9CI) (CA INDEX NAME)

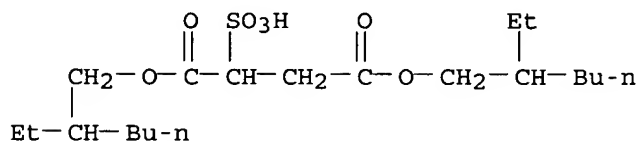


IT 577-11-7, Newkalgen EP 70G

RL: MOA (Modifier or additive use); USES (Uses)  
(surfactant in light, extruded pesticidal compns. containing  
ceramic carrier for water surface application)

RN 577-11-7 HCAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI)  
(CA INDEX NAME)



● Na

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 6 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:603426 HCAPLUS

DOCUMENT NUMBER: 131:210406

TITLE: Storage-stable pesticide suspensions containing  
surfactants and manufacture thereof

INVENTOR(S): Maegawa, Yuichi; Tanaka, Nobuyuki

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

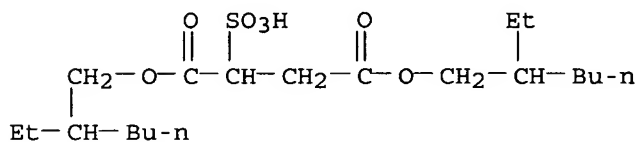
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11255602	A2	19990921	JP 1998-73092	19980309 <--
PRIORITY APPLN. INFO.:			JP 1998-73092	19980309
AB The suspensions, which can be diluted with either H2O or nonaq. solvents,				

are manufactured by adding pesticides to mixts. of sorbitan fatty acid ester or sucrose fatty acid ester **surfactants**, nonionic **surfactants** (HLB 8-15), and nonaq. solvents incompatible with H2O and uniformly blending the mixts. Stanohl LP 35 (paraffin oil), Newcol 80 (sorbitan monooleate, HLB 6.4), and Newcol 1210 (polyoxyethylene oleyl ether, HLB 12.4) were uniformly mixed, homogenized with thiophanate-Me powder and Benton 34 (bentonite), and pulverized to give a storage-stable **fungicide** suspension.

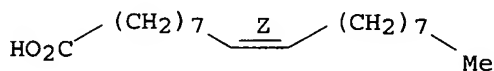
IT 577-11-7 1338-43-8, Newcol 80 9002-92-0,  
Newcol 1100 9004-98-2, Newcol 1210 9016-45-9, Newcol  
564  
RL: AGR (Agricultural use); MOA (Modifier or additive use); PRP  
(Properties); BIOL (Biological study); USES (Uses)  
(storage-stable pesticide suspensions containing nonionic  
**surfactants** for dilution with H2O or nonaq. solvents)  
RN 577-11-7 HCAPLUS  
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI)  
(CA INDEX NAME)



● Na

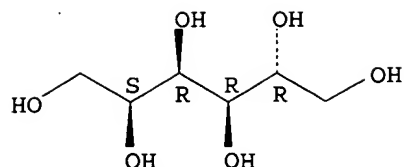
RN 1338-43-8 HCAPLUS  
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 112-80-1  
CMF C18 H34 O2

Double bond geometry as shown.

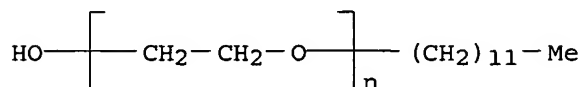


CM 2  
  
CRN 50-70-4  
CMF C6 H14 O6

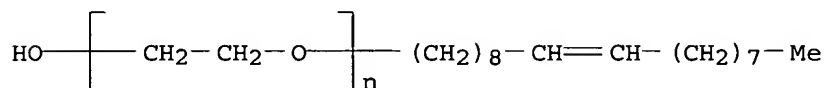
Absolute stereochemistry.



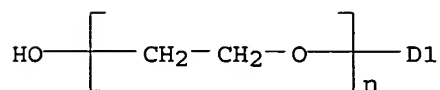
RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 9004-98-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(9Z)-9-octadecenyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

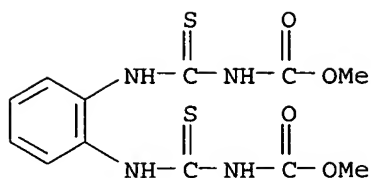


RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



D1- (CH<sub>2</sub>)<sub>8</sub>-Me

IT 23564-05-8, Thiophanate-methyl  
 RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study);  
 USES (Uses)  
 (storage-stable pesticide suspensions containing nonionic  
**surfactants** for dilution with H<sub>2</sub>O or nonaq. solvents)  
 RN 23564-05-8 HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
 (9CI) (CA INDEX NAME)



L38 ANSWER 7 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:739397 HCAPLUS

DOCUMENT NUMBER: 128:44936

TITLE: Systemic pesticide composition and method for treating citrus during pruning or grafting

INVENTOR(S): Mizobe, Shinji; Miyata, Akiyoshi; Saito, Kenji

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan; Yamaguchi Prefecture

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09291002	A2	19971111	JP 1996-354437	19961219 <--
PRIORITY APPLN. INFO.:			JP 1996-69290	A 19960229
OTHER SOURCE(S): MARPAT 128:44936				

AB A composition for controlling pests on citrus fruits contains a systemic insecticide (I) of the formula RNAC(:YX)B at 0.1-10% by weight and a vinyl acetate-type polymer; the composition is applied to the cut surface in pruning or injected into grafts. In I, R = H, formyl, acetyl, C1-4 alkyl, 2-chloro-5-pyridylmethyl, or 2-chloro-5-thiazolylmethyl; A = H, C1-4 alkyl, or is bonded with B to form, e.g., an ethylene group; B = C1-4 alkyl, SR2 (R2 = C1-4 alkyl), etc.; Y = N or CR3 (R3 = H or C1-4 alkyl); X = nitro or cyano. Such formulations may also contain a systemic antimicrobial agent. Thus, applying a composition containing acetamiprid 2, vinyl

acetate adhesive 80, and **surfactant**, etc. 18% to the cut surface of a Citrus unshiu branch prevented damage by citrus leaf miner.

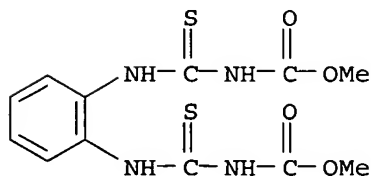
IT 23564-05-8, Topsin M

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(pesticide compns. and method for treating citrus during pruning or grafting)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)





L38 ANSWER 8 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:999745 HCAPLUS  
 DOCUMENT NUMBER: 124:48311  
 TITLE: Wettable compositions for seed sterilization  
 INVENTOR(S): Kurotsu, Juichi; Noguchi, Tatsuo; Nabeya, Yoshihiko;  
 Yonemura, Shinji  
 PATENT ASSIGNEE(S): Hokko Chem Ind Co, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07252103	A2	19951003	JP 1994-66416	19940311 <--
JP 3257896	B2	20020218		

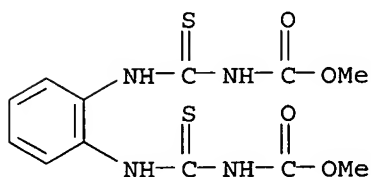
PRIORITY APPLN. INFO.: JP 1994-66416 19940311

AB Wettable compns. contain (a) active ingredients, (B) urea, sugars, and/or modified starch as water-soluble extenders, and (C) nonionic and/or anionic **surfactants** at a such amount so that the surface tension of a dispersion, in which the resulting wettable compns. are dispersed in 10 weight parts H<sub>2</sub>O, show 25-55 mN/m at 20°. Ppts., formed when a larger amount of compns. are dispersed in H<sub>2</sub>O, are easily redispersed by shaking. Benomyl 20, polyoxyethylene sorbitan fatty acid ester 5, and urea 75 parts were pulverized to give a wettable powders.

IT 23564-05-8, Thiophanate methyl  
 RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study);  
 USES (Uses)  
 (wetable seed sterilizing compns. containing **surfactants** and urea and/or sugars as extenders with good redispersibility)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 9 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:75250 HCAPLUS  
 DOCUMENT NUMBER: 118:75250  
 TITLE: Comparative effects of an antitranspirant, **surfactants** and **fungicides** on Mucor rot of tomatoes in storage  
 AUTHOR(S): Reyes, Andres A.  
 CORPORATE SOURCE: Res. Stn., Agric. Canada, Vineland Station, ON, L0R 2E0, Can.  
 SOURCE: Microbios (1992), 71(288-289), 235-41  
 CODEN: MCBIA7; ISSN: 0026-2633  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Three **fungicides** (iprodione, thiophanate-Me and vinclozolin), two **surfactants** (Triton Ag-98 and Triton XR) and one antitranspirant (masbrane) were tested for their ability to suppress spore germination and germ tube growth of *Mucor mucedo* in potato dextrose agar at 15°. Triton Ag-98 and Triton XR were highly suppressive, iprodione and masbrane moderately suppressive, and thiophanate-Me and vinclozolin slightly so. These chems. were also evaluated as dips for the suppression of *Mucor* rot of tomatoes in storage at 15°. The only effective chems. were Triton Ag-98 and Triton XR. Chemical control was improved by storing treated tomatoes in a controlled atmosphere of 91% N<sub>2</sub> +

7.5%

CO + 1.5% O<sub>2</sub>.

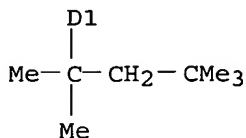
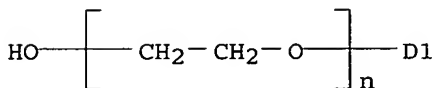
IT 9036-19-5 23564-05-8, Thiophanate-methyl

RL: BIOL (Biological study)

(spore germination and germ tube growth of *Mucor mucedo* suppression by, rot control in stored tomatoes in relation to)

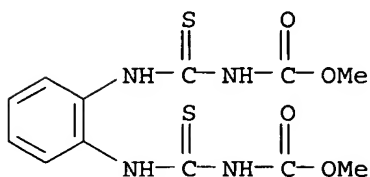
RN 9036-19-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 10 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:464582 HCAPLUS

DOCUMENT NUMBER: 117:64582

TITLE: Salmonella mutagenicity tests: V. Results from the testing of 311 chemicals

AUTHOR(S): Zeiger, Errol; Anderson, Beth; Haworth, Steve; Lawlor, Timothy; Mortelmans, Kristien

CORPORATE SOURCE: Exp. Carcinog. Mutagen. Branch, Natl. Inst. Environ.  
Health Sci., Research Triangle Park, NC, USA  
SOURCE: Environmental and Molecular Mutagenesis (1992  
) , 19(Suppl. 21), 2-141  
CODEN: EMMUEG; ISSN: 0893-6692

DOCUMENT TYPE: Journal  
LANGUAGE: English

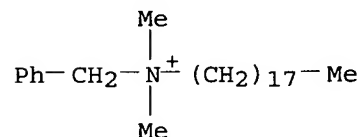
AB Three hundred eleven chems. were tested under code, for mutagenicity, in  
S. typhimurium; 35 of the chems. were tested more than once in the same or  
different labs. The tests were conducted using a preincubation protocol  
in the absence of exogenous metabolic activation, and in the presence of  
liver S-9 from Aroclor-induced male Sprague-Dawley rats and Syrian  
hamsters. Some of the volatile chems. were also tested in desiccators. A  
total of 120 chems. were mutagenic or weakly mutagenic, 3 were judged  
questionable, and 172 were nonmutagenic. The remaining 16 chems. produced  
different responses in the two or three labs. in which they were tested.  
The results and data from these tests are presented.

IT 122-19-0

RL: BIOL (Biological study)  
(mutagenicity of, testing of)

RN 122-19-0 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX  
NAME)

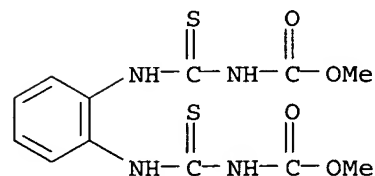


IT 23564-05-8

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(mutagenicity of, testing of)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
(9CI) (CA INDEX NAME)



L38 ANSWER 11 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:553069 HCAPLUS

DOCUMENT NUMBER: 115:153069

TITLE: Effect of selected pesticides on survival of  
Colletotrichum gloeosporioides f. sp. malvae, a  
bioherbicide for round-leaved mallow (Malva pusilla)  
AUTHOR(S): Grant, Nelson T.; Prusinkiewicz, Elizabeth; Makowski,

CORPORATE SOURCE: Philom Bios Inc., Saskatoon, SK, Can.  
 SOURCE: Weed Technology (1990), 4(4), 701-15  
 CODEN: WETEE9; ISSN: 0890-037X

DOCUMENT TYPE: Journal

LANGUAGE: English

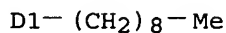
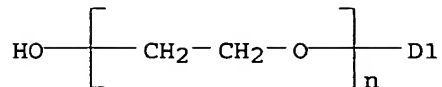
AB Com. formulations of 33 herbicides, 12 **fungicides**, and 16 adjuvants were evaluated for their toxic effects on germination of *C. gloeosporioides* f. sp. *malvae* spores. At the recommended rates, none of the herbicides for grass weed control (diclofop, difenzoquat, fenoxaprop-Et, flamprop-Me, and sethoxydim) or formulated herbicides registered for both broadleaf and grass weed control [diclofop plus bromoxynil (23:8), propanil, and propanil plus MCPA (7:2)] were compatible with these spores. Spore germination and appressorial formation recorded 24 h after exposure were totally inhibited by these herbicides. At recommended rates, herbicides for broadleaf weed control (2,4-D ester, 2,4-D amine, benazolin, bentazon, clopyralid, cyanazine, cyanazine plus MCPA (1:2), dicamba, dicamba plus MCPA (1:4), dicamba plus mecoprop plus MCPA (1:1:4.4), dicamba plus 2,4-D plus mecoprop (4.2:11:3), MCPA amine, MCPA-K, MCPA-Na, and metribuzin), caused  $\leq 20\%$  reduction in spore germination, and appressorial formation was not significantly reduced except by benazolin and metribuzin. Cyanazine and dicamba at recommended rates increased appressorial formation without reducing germination compared to the control. At lower concns., the other herbicides recommended for broadleaf weed control (2,4-DB, bromoxynil, bromoxynil plus MCPA (1:1), dichlorprop plus 2,4-D (1:1), imazethapyr, linuron, and picloram) were less toxic to these spores. The **fungicide** triadimefon at recommended rate had no effect on the spores. Dicloran reduced germination  $> 50\%$  at recommended rate and growth was distorted. At recommended rates, spore germination was inhibited by  $>90\%$  with benomyl, carbathiin, chlorothalonil, iprodione, mancozeb, and thiophanate-Me although germination increased as concentration declined. Spore germination was totally inhibited at all concns. with ferbam, thiram, and captan. Exposure to the adjuvants, Agral 90, Alkasurf-OP-10, Atplus-555, Citowett Plus, Enhance, Renex 36, Triton XR, and X-77, inhibited spore germination and reduced spore production compared to the control. Spore germination was significantly higher in suspensions containing ammonium sulfate, Assist, Bio-veg, CD-407, and Tween 20, as well as with starch, sucrose, and water (control) than with the other adjuvants. Spore production was higher in suspensions containing starch and Bio-veg than in those with water and the other adjuvants.

IT 9016-45-9, Agral 90 9036-19-5, Alkasurf OP 10  
 23564-05-8

RL: BIOL (Biological study)  
 (Colletotrichum gloeosporioides malvae spore germination response to)

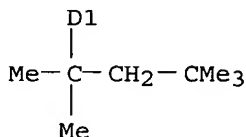
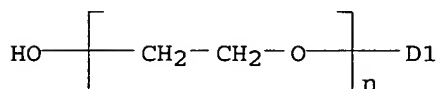
RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy- (9CI)  
 (CA INDEX NAME)



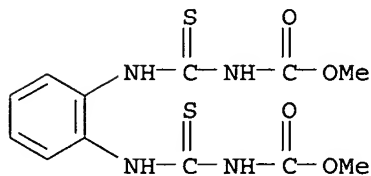
RN 9036-19-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1,1,3,3-tetramethylbutyl)phenyl]-  
 $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
 (9CI) (CA INDEX NAME)



L38 ANSWER 12 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:472754 HCAPLUS

DOCUMENT NUMBER: 113:72754

TITLE: Toxicity of pesticides to some aquatic animals. XI.  
 Toxicity of some pesticides to tadpoles

AUTHOR(S): Nishiuchi, Yasuhiro

CORPORATE SOURCE: Noyaku Kensasho, Tokyo, Japan

SOURCE: Seitai Kagaku (1989), 9(4), 23-6

CODEN: SKGKDR; ISSN: 0386-8141

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

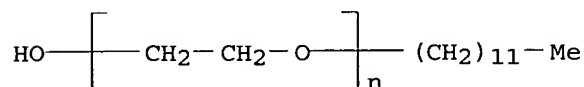
AB The toxicity of agrochems., including insecticides, fungicides, herbicides, plant growth regulators, rodenticides, etc., was tested on tadpoles of *Rana brevipoda porosa*. Pyrethrin, thiocyclam, bromopropylate, polynactin, and dithianon showed potent toxicity to the tadpoles (LC50 <1 ppm). In contrast, the toxicity was low for acephate, diflubenzuron, kasugamycin, thiophanate Me, validamycin, polyoxin, MAFA, diquat, triclopyr, maleic hydrazide choline, DPA, dichlorprop, maleic hydrazide ethanolamine, wax, and thallium sulfate (LC50 >100 ppm).

IT 9002-92-0 23564-05-8, Thiophanate methyl

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(toxicity of, to tadpoles of *Rana brevipoda parosa*)

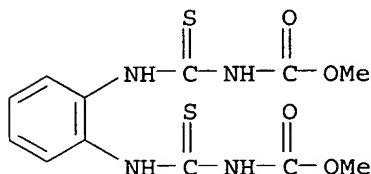
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 13 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:227162 HCAPLUS

DOCUMENT NUMBER: 110:227162

TITLE: Boron-containing wood preservative and thickeners

INVENTOR(S): Evans, David Lloyd

PATENT ASSIGNEE(S): Hickson Timber Protection (N. Z.) Ltd., N. Z.

SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 289317	A1	19881102	EP 1988-303860	19880428 <--
EP 289317	B1	19930303		
R: AT, BE, DE, FR, GB, IT, NL, SE				
CA 1329311	A1	19940510	CA 1988-565164	19880426 <--
FI 8801976	A	19881029	FI 1988-1976	19880427 <--
AU 8815201	A1	19881103	AU 1988-15201	19880427 <--
AU 614958	B2	19910919		

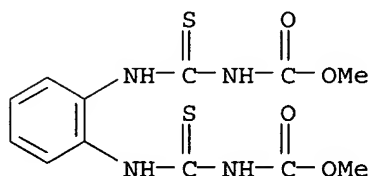
US 5129946 A 19920714 US 1991-652317 19910207 <--  
 PRIORITY APPLN. INFO.: NZ 1987-220130 A 19870428  
 NZ 1987-221810 A 19870915  
 NZ 1988-223277 A 19880122  
 US 1988-187296 B1 19880428

AB A wood preservative composition comprises B-containing compds. and also contains a thickener. A typical wood preservative composition contained boric acid 18.75, borax 22.14, H2O 34.11, Nalcacrol II (80% dispersion in kerosene) 1.3, magnafloc E24 solution in H2O and MeOH 0.5 weight%.

IT 23564-05-8  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (fungicides, wood preservatives containing)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 14 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:472714 HCAPLUS

DOCUMENT NUMBER: 107:72714

TITLE: The role of adjuvants in the foliar absorption of benzimidazoles and in controlling leaf spots of groundnut

AUTHOR(S): Tiwari, R. K. S.; Vyas, S. C.; Shastry, P. P.

CORPORATE SOURCE: Dep. Plant Pathol., J.N. Agric. Univ., Jabalpur, 482 004, India

SOURCE: Indian Journal of Plant Protection (1987), 15(1), 71-5  
 CODEN: IPLPDQ; ISSN: 0253-4355

DOCUMENT TYPE: Journal

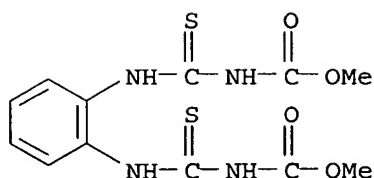
LANGUAGE: English

AB An addition of 1% Tween-80 to com. formulations of benzimidazoles, which already contained **surfactants**, substantially improved foliar absorption by potted peanuts (groundnut; *Arachis hypogaea*) and improved control of early and late leaf spots caused by *Cercospora arachidicola* and *Phaeoisariopsis personata*, resp. With Tween-80, 2 sprays of carbendazim, benomyl, or thiophanate-Me decreased the leaf area damaged by leaf spots from 48.80 to 12.65, 15.37, and 27.02%, resp. Glycerol enhanced foliar absorption of benzimidazoles less effectively than did Tween-80.

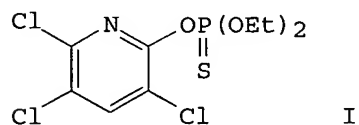
IT 23564-05-8, Thiophanate-methyl  
 RL: BIOL (Biological study)  
 (peanut leaf spot control by, Tween-80 effect on)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



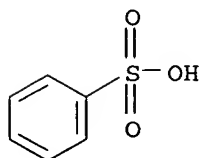
L38 ANSWER 15 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1986:163325 HCAPLUS  
 DOCUMENT NUMBER: 104:163325  
 TITLE: Toxicity of pesticides to some aquatic animals. VII.  
 Acute toxicity to Daphnia magna  
 AUTHOR(S): Nishiuchi, Yasuhiro  
 CORPORATE SOURCE: Noyaku Kensasho, Obira, Japan  
 SOURCE: Seitai Kagaku (1985), 8(2), 15-20  
 CODEN: SKGKDR; ISSN: 0386-8141  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Japanese  
 GI



AB The acute toxic effect of 16 insecticides, 14 **fungicides**, 15 herbicides, 4 rodenticides, 31 plant growth regulators, and 19 other agrochems. was tested on D. magna. Chlorpyrifos (I) [2921-88-2], sulprofos [35400-43-2], diazinon [333-41-5], and pyrazofos [13457-18-6] showed strong toxic effects on D. magna with median lethal concentration values of <0.1 ppm. In contrast, tetradifon [116-29-0], morantel tartrate [26155-31-7], pyroquilon [57369-32-1], pyrazoxyfen [71561-11-0], pendimethalin [40487-42-1], fothaminammonium [25954-13-6], dalapon [75-99-0], rodenticides, plant growth regulators, and other agrochems. showed weak toxic effects against D magna. The toxic effect of these tested agrochems. on D. magna is comparable to that on conventionally tested D. pulex.

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., calcium salts  
 9002-92-0 9016-45-9 23564-05-8  
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
 (toxicity of, to Daphnia magna)

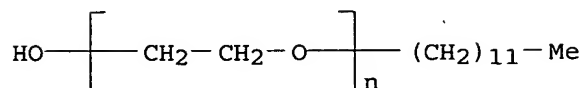
RN 98-11-3 HCAPLUS  
 CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



RN 9002-92-0 HCAPLUS

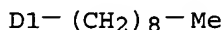
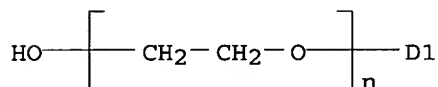


CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



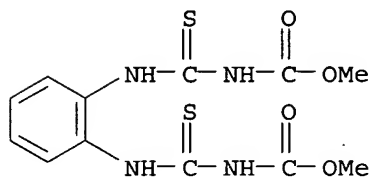
RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 16 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:571221 HCAPLUS

DOCUMENT NUMBER: 99:171221

TITLE: Chemotherapy of the bacterial blight of beans

AUTHOR(S): Stancescu, C.; Severin, V.

CORPORATE SOURCE: Inst. Cercet. Prot. Plantelor, Bucharest, Rom.

SOURCE: Analele Institutului de Cercetari pentru Protectia Plantelor, Academia de Stiinte Agricole si Silvice (1981), Volume Date 1980, 16, 75-83

CODEN: APSVBN; ISSN: 0365-575X

DOCUMENT TYPE: Journal

LANGUAGE: Romanian

AB Of 60 pesticides, 44 pesticide mixts., 10 antibiotics, and 6 **surfactants** screened in vitro against Xanthomonas phaseoli, X. fuscans, and Pseudomonas phaseolicola, Dithane M 45 [8018-01-7], Vondozeb [8018-01-7], TMTD [137-26-8], Entontan [87347-48-6], Lekinol 15PP [65979-28-4], Biocid ETA [87347-51-1], Criptodin [12679-77-5], chloramphenicol [56-75-7], Funaben [10605-21-7], Silodor [61970-56-7],

and carbendazim-maneb mixture [52080-81-6] were the most effective. Bacterial bean blight, caused by the above species, was partially controlled in field expts. by PEI-24 [Cu(OH)2] [1344-69-0], Kocide-101 [20427-59-2], Criptonol [134-31-6], Biocid ETA, Tioman V [60240-47-3], and the exptl. product A.C.-8 [87347-20-4].

IT 60240-47-3

RL: BIOL (Biological study)  
(bacterial blight control by, on bean)

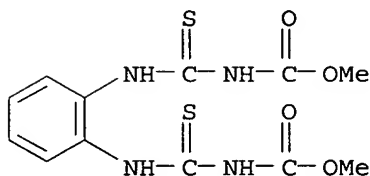
RN 60240-47-3 HCAPLUS

CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']zinc (9CI) (CA INDEX NAME)

CM 1

CRN 23564-05-8

CMF C12 H14 N4 O4 S2

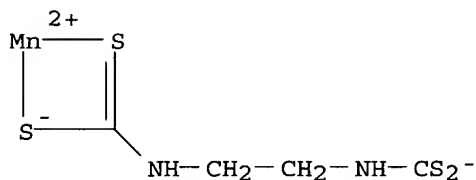


CM 2

CRN 12427-38-2

CMF C4 H6 Mn N2 S4

CCI CCS

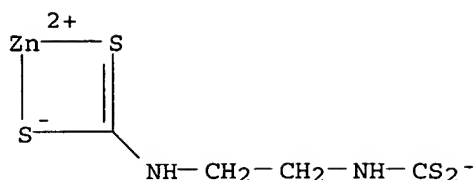


CM 3

CRN 12122-67-7

CMF C4 H6 N2 S4 Zn

CCI CCS



L38 ANSWER 17 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1983:217466 HCAPLUS  
 DOCUMENT NUMBER: 98:217466  
 TITLE: Preservative compositions for wood and its products  
 INVENTOR(S): Hayward, Peter James; Naish, Raymond William; Rae, Wallace James  
 PATENT ASSIGNEE(S): Ivon Watkins-Dow Ltd., N. Z.  
 SOURCE: Pat. Specif. (Aust.), 55 pp.  
 CODEN: ALXXAP  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

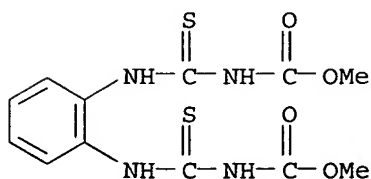
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AU 526886	B2	19830203	AU 1978-36600	19780529 <--
AU 7836600	A1	19791206		

PRIORITY APPLN. INFO.: NZ 1977-184225 A 19770527  
 NZ 1977-185127 A 19770907

AB The addition of H<sub>2</sub>O-soluble cationic **surfactant**, such as benzalkonium chloride, hexadecylpyridinium chloride, etc. to **fungicide** solution in organic solvents gave wood preservative concentrate dispersible in water. Thus, toothpicks of Pinus radiata were soaked for 5 min in 5% Me<sub>2</sub>CO solution of a concentrate containing alkyldimethylamine acetate 60, pentachlorophenol [87-86-5] 20, cyclohexanone 10 and butoxyethanol 10% to give a specimen which showed better resistance against soft rot decay when incubated in soil with 60% moisture content for 8 wk at 20° than specimens treated with Cu chrome arsenate salts or the alkyldimethylamine acetate alone.

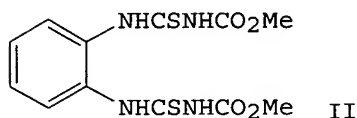
IT **23564-05-8**  
 RL: USES (Uses)  
 (wood presevatives, water-dispersible, containing cationic **surfactants**)

RN 23564-05-8 HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 18 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1982:594592 HCAPLUS  
 DOCUMENT NUMBER: 97:194592  
 TITLE: Low volume-type synergistic fungicide composition  
 INVENTOR(S): Baicu, Tudorel; Popescu, Georgeta; Iliuta, Ion; Ene, Iulia; Rascanescu, Mircea; Uglea, Constantin; Szekely, Iosif; Galusinschi, Alexandra  
 PATENT ASSIGNEE(S): Institutul de Cercetari pentru Protectia Plantelor, Rom.  
 SOURCE: Rom., 5 pp.  
 CODEN: RUXXA3  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Romanian  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RO 71912	B	19820510	RO 1977-91717	19771001 <--
PRIORITY APPLN. INFO.: GI			RO 1977-91717	19771001



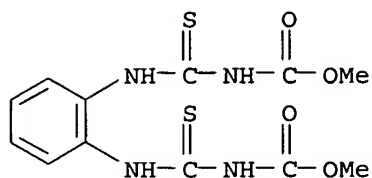
AB A low-volume synergistic mancozeb-Me thiophanate mixture (I-II) [60240-47-3] is formulated using a petroleum distillate (b.p. > 300°), a cationic **surfactant** adsorbed on bentonite, montmorillonite or bravaisite, and an excess of nonadsorbed **surfactant**. Thus, a composition is given, containing 8.8% II and 30% I, suspended in a petroleum fraction b. >300°, as well as 2-5% bentonite containing adsorbed C14-18 aliphatic amine and 2-5% free C14-18 aliphatic amine. The formulation (1.24 kg active ingredient/ha) almost totally controlled Cercospora beticola on sugar beet.

IT 60240-47-3  
 RL: PROC (Process)  
 (low-volume formulation of)  
 RN 60240-47-3 HCAPLUS  
 CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']zinc (9CI) (CA INDEX NAME)

CM 1

CRN 23564-05-8

CMF C12 H14 N4 O4 S2

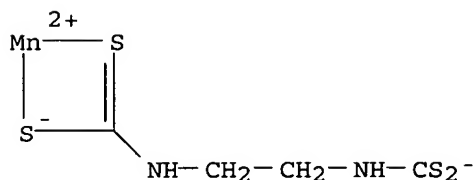


CM 2

CRN 12427-38-2

CMF C4 H6 Mn N2 S4

CCI CCS

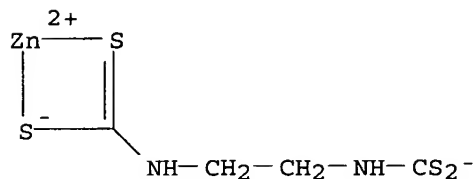


CM 3

CRN 12122-67-7

CMF C4 H6 N2 S4 Zn

CCI CCS



L38 ANSWER 19 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:577005 HCAPLUS

DOCUMENT NUMBER: 97:177005

TITLE: Interaction of pesticides with nonionic tenzides and amino acids studied by OPTLC

AUTHOR(S): Cserhati, T.; Bordas, B.; Tyihak, E.; Bohus, P.

CORPORATE SOURCE: Res. Inst. Plant Prot., Budapest, H-1525, Hung.

SOURCE: Proc. Int. Symp. Instrum. High Perform. Thin-Layer Chromatogr., 2nd (1982), 74-88. Editor(s): Kaiser, Rudolf E. Inst. Chromatogr.: Bad Duerkheim, Fed. Rep. Ger.  
CODEN: 48RSAB

DOCUMENT TYPE: Conference

LANGUAGE: English

AB The possibility to apply overpressured thin-layer chromatog. (OPTLC) to measure the relative energies of adsorptive interactions is discussed.

The adsorption of 23 nonionic tensides and 2 amino acids on 6 different pesticides was studied and the data were evaluated by principal component anal. The energies of interaction increase with decreasing number of ethylene-oxide groups per mol.; the binding energies were higher in ionic environment and the 6 pesticides showed various adsorptive patterns. The amino acids were adsorbed very weakly on the pesticides making improbable the formation of pesticide-protein complexes.

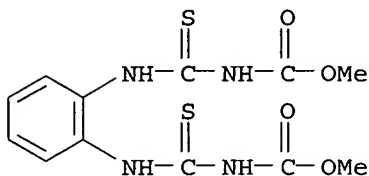
IT 23564-05-8

RL: PRP (Properties)

(interaction of, with nonionic tensides and amino acids)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

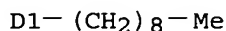
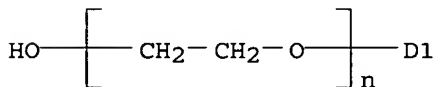


IT 9016-45-9

RL: BIOL (Biological study)

(pesticides interaction with)

RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

L38 ANSWER 20 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:157202 HCAPLUS

DOCUMENT NUMBER: 96:157202

TITLE: Adjuvant effects of poly(oxyethylene) sorbitan fatty acid esters on the **fungicidal** action of **fungicides**

AUTHOR(S): Kawashima, Kazuo; Takeno, Tsuneyuki

CORPORATE SOURCE: Wakayama Res. Lab., Kao Soap Co., Ltd., Wakayama, 1334, Japan

SOURCE: Yukagaku (1982), 31(3), 163-6

CODEN: YKGKAM; ISSN: 0513-398X

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Adjuvant effects of Tween 80 [9005-65-6] on the **fungicidal**

action of benomyl [17804-35-2] were studied using six plant pathogens grown on solid medium. The effects reached maximum at 5000.apprx.10,000 ppm of Tween 80, while the sole system of Tween 80 did not show fungicidal action even at such high concns. Adjuvant effects of 4 other poly(oxyethylene) sorbitan fatty acid esters on the fungicidal action of benomyl were also observed and appeared to be maximum at an approx. hydrophylic-lipophilic balance of 12. Effects of Tween 80 on fungicidal actions of thiophanate methyl [23564-05-8], maneb [12427-38-2], and triazine [101-05-3] in addition to benomyl were examined and adjuvant effects were observed with all except triazine. Phytotoxicity of Tween 80 to soybean and rice plant seedlings was extremely weak compared with Emulgen 910 [39475-46-2]. It was supposed that adjuvant effects of Tween 80 might be due to increase in solubility of fungicides in water.

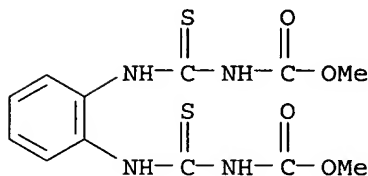
IT 23564-05-8

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(fungicidal activity of, poly(oxyethylene) sorbitan fatty acid esters effect on)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

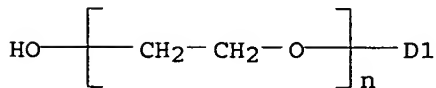


IT 9016-45-9

RL: PRP (Properties)  
(phytotoxicity of, on soybean and rice)

RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy- (9CI)  
(CA INDEX NAME)



D1-(CH<sub>2</sub>)<sub>8</sub>-Me

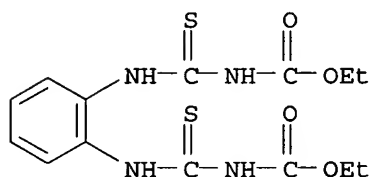
L38 ANSWER 21 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:57410 HCAPLUS

DOCUMENT NUMBER: 96:57410

TITLE: Effect of present water pollution on microbial

activity  
 AUTHOR(S): Daubner, Imrich; Toth, Dezider  
 CORPORATE SOURCE: Ustav Exp. Biol. Ekol., SAV, Bratislava, Czech.  
 SOURCE: Vodni Hospodarstvi: B (1981), 31(8), 205-10  
 CODEN: VHOBAB; ISSN: 0322-8231  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Slovak  
 AB **Fungicides**, herbicides, **surfactants**, and hydrocarbons affect the metals of microorganism in the biol. mineralization of organic compds. in wastewaters. **Fungicides** had no effect at  $\leq 10$  mg/L. The most active was Dithan [12656-69-8]. Herbicides ("triazine derivs.") were ineffective at  $\leq 100$  mg/L. **Surfactants** were utilized as C and N sources. Crude petroleum fractions had inhibiting effect at 0.2% on the growth of the microorganisms; the most active in the hydrocarbon degradation was *Pseudomonas aeruginosa*.  
 IT 23564-06-9  
 RL: POL (Pollutant); OCCU (Occurrence)  
 (water pollution by, microbial activity in relation to)  
 RN 23564-06-9 HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, diethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 22 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1980:123206 HCAPLUS  
 DOCUMENT NUMBER: 92:123206  
 TITLE: Influence of **surfactants** on effectiveness of benzimidazole **fungicides** in control of apple scab  
 AUTHOR(S): Nowacka, Halina; Goszczynski, Wlodzimierz; Plich, Mirosława  
 CORPORATE SOURCE: Res. Inst. Pomol. Floricult., Skierniewice, Pol.  
 SOURCE: Fruit Science Reports (1979), 6(2), 67-76  
 CODEN: FSREDB; ISSN: 0137-1479  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB The effect of **surfactants**, e.g. Euphytan extra and Triton CS, on the effectiveness of Topsin M [23564-05-8] and Funaben [10605-21-7] in control of apple scab was examined. In field expts., these **surfactants** permitted  $\leq 3$ -fold reduction of Topsin M and Funaben 50 spray concentration without lowering their effectiveness. Good results were obtained when no resistance of the pathogen to benzimidazole **fungicides** was observed, or when this resistance was not very high. In case of high level of resistance to the benzimidazole **fungicides**, neither the **surfactants** nor the above **fungicides** were effective in control of apple scab, regardless of the concentration of the **fungicide**. In laboratory expts. in vitro, Euphytan extra had no effect on the growth of *Venturia inaequalis*. Adding Euphytan extra to Topsin M and Funaben did not affect their effectiveness. Triton CS at 50 ppm was **fungicidal**. Addition of Euphytan extra (10.03%) to Topsin M increased the level of MBC residues in the fruit in comparison



to the residue level found when Topsin M alone was used in the same concentration

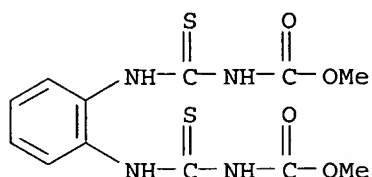
IT 23564-05-8

RL: BIOL (Biological study)

(in control of apple scab, **surfactants** effect on)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 23 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:401384 HCAPLUS

DOCUMENT NUMBER: 91:1384

TITLE: **Fungicide** based on dimethylol-4,4-O-phenyl-bis(3-thioallophanate)

INVENTOR(S): Popescu, Georgeta; Baicu, Tuderel; Iliuta, Ion; Ene, Iulia; Rascanescu, Mircea; Uhlea, Constantin; Galusinski, Alexandra; Gerogescu, Emil

PATENT ASSIGNEE(S): Centrala Industriala de Produse Anorganice, Rom.

SOURCE: Ger. Offen., 17 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

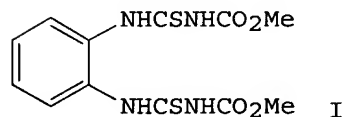
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

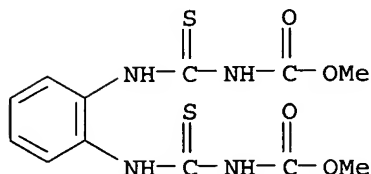
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2830042	A1	19790412	DE 1978-2830042	19780707 <--
RO 66706	B	19820324	RO 1977-91718	19771001 <--
GB 2008949	A	19790613	GB 1978-28134	19780628 <--
GB 2008949	B2	19820407		
CH 637266	A	19830729	CH 1978-9758	19780919 <--
PRIORITY APPLN. INFO.:			RO 1977-91718	A 19771001

GI

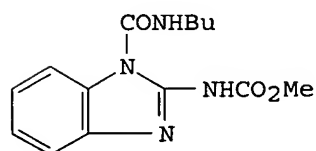


AB A nonphytotoxic Me thiophanate (I) [23564-05-8] formulation, applicable as an ultralow-volume spray is given. It consists of 20-35% by weight I, suspended in a petroleum fraction b.  $\leq 300^\circ$ , a nonionic **surfactant**, and 2-5% bentonitetreated with an aliphatic amine (C14-18). The formulation was not phytotoxic to the common crop species. Thus, the above formulation applied in field expts. at 0.7 L/ha, almost completely controlled Cercospora beticola on sugar beet.

IT 23564-05-8  
 RL: PROC (Process)  
 (ultra low-volume formulation of)  
 RN 23564-05-8 HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
 (9CI) (CA INDEX NAME)



L38 ANSWER 24 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1979:181405 HCAPLUS  
 DOCUMENT NUMBER: 90:181405  
 TITLE: Effect of **surfactants** on fungicide efficiency  
 AUTHOR(S): Kobakhidze, D. M.; Shevchenko, T. V.; Toskina, V. A.  
 CORPORATE SOURCE: USSR  
 SOURCE: Byulleten Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Zashchity Rastenii (1977), 40, 26-9  
 CODEN: BVZRAU; ISSN: 0459-0864  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI



I

AB Spraying wheat in the greenhouse with 0.005% benomyl (I) [17804-35-2] amended with 0.1% Triton CS-7 [53795-57-6], Tween 20 [9005-64-5], OP-7 [11100-29-1], Tween 40 [9005-66-7], Tween 60 [9005-67-8], or Tween 80 [9005-65-6] completely controlled powdery mildew which infected untreated controls and controls treated with I alone by 57.5 and 8.2%, resp. I plus the **surfactants** also completely or almost completely controlled powdery mildew on greenhouse cucumbers, whereas I alone decreased the infestation from 52.5 to 28.8%. Triton CS-7, however, caused yellowing and curling of leaves. Triton CS-7 increased the effectiveness of control of powdery mildew on cucumbers in the field by 0.1% Topsin M [23564-05-8], of powdery mildew, and stem and brown rust on winter wheat by 1.5 kg I/ha, and of late blight of potatoes caused by Phytophthora infestans by 0.4% Dithane M-45 [8018-01-7].  
 IT 11100-29-1  
 RL: BIOL (Biological study)  
 (fungicide effectiveness increase by)

RN 11100-29-1 HCAPLUS  
CN OP 7 (Russian surfactant) (9CI) (CA INDEX NAME)

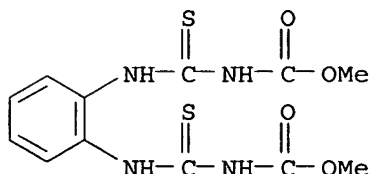
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 23564-05-8

RL: BIOL (Biological study)  
(surfactants increase of effectiveness of)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
(9CI) (CA INDEX NAME)



L38 ANSWER 25 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1978:610269 HCAPLUS

DOCUMENT NUMBER: 89:210269

TITLE: Thiophanate-methyl - control of apple powdery mildew  
by dormant season spraying - a progress report

AUTHOR(S): Mercer, R. T.; Stevens, C. C.; Beach, B. G. W.; Paul,  
G. C.

CORPORATE SOURCE: Ongar Res. Stn., May and Baker Ltd., Ongar/Essex, UK

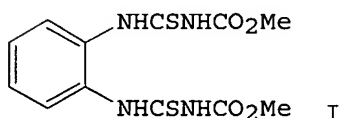
SOURCE: British Crop Protection Conference--Pests and  
Diseases, Proceedings (1977), (2), 369-74

CODEN: PBCDDQ; ISSN: 0144-1612

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

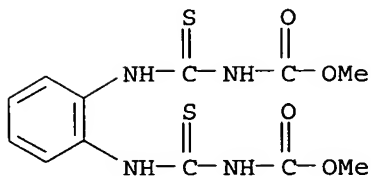


AB One dormant season spray of thiophanate-methyl (I) [23564-05-8]  
applied to run-off (2200 L/ha) at 0.1% in combination with 0.5 to 1% of  
suitable anionic or nonionic **surfactants**, showed promise for the  
control of primary apple mildew caused by *Podosphaera leucotricha* in  
vegetative and fruiting buds. Sprays were applied from the period  
immediately after harvest pre-leaf fall, until the late dormant period  
without causing any phytotoxicity the following spring. Attempts to  
reduce the volume rate applied to 1100 L/ha resulted in poorer disease  
control. In order to obtain full benefit from dormant season mildew  
control, protectant cover sprays must commence at the green cluster-pink  
bud stage.

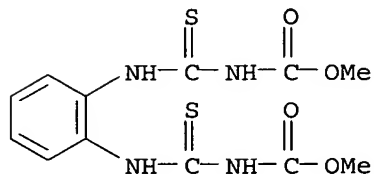
IT 23564-05-8

RL: BIOL (Biological study)  
(apple powdery mildew control by)

RN 23564-05-8 HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
 (9CI) (CA INDEX NAME)

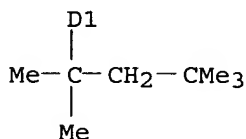
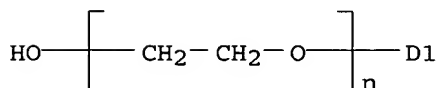


L38 ANSWER 26 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1978:437887 HCAPLUS  
 DOCUMENT NUMBER: 89:37887  
 TITLE: Bioassays with *Penicillium* sp. for quantitative determination of **fungicides**. Part II. Determination of methyl thiophanate captan and funaben T, **fungicide** mixture with adjuvants  
 AUTHOR(S): Moldzynska, B.; Rejman, S.  
 CORPORATE SOURCE: Res. Inst. Pomol., Skierniewice, Pol.  
 SOURCE: Fruit Science Reports (1977), 4(4), 5-14  
 CODEN: FSREDB; ISSN: 0137-1479  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB A *Penicillium* bioassay, previously used for the determination of benomyl (ibid., 1977) was applicable for the determination of Funaben T (Carbendazim-TMTD mixture) [63288-44-8] but not for that of thiophanate Me [23564-05-8] and captan [133-06-2]. *P. variable* was the most suitable test organism. Most adjuvants tested, such as Tween 20 [9005-64-5] increased the activity of the **fungicides**.  
 IT 23564-05-8  
 RL: BIOL (Biological study)  
 (bioassay for, using *Penicillium*)  
 RN 23564-05-8 HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester  
 (9CI) (CA INDEX NAME)

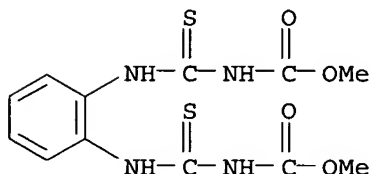


L38 ANSWER 27 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1976:517643 HCAPLUS  
 DOCUMENT NUMBER: 85:117643  
 TITLE: Effects of some **fungicides** on *Rhizobium trifolii* and its symbiotic relationship with white clover  
 AUTHOR(S): Fisher, David J.  
 CORPORATE SOURCE: Long Ashton Res. Stn., Univ. Bristol, Bristol, UK

SOURCE: Pesticide Science (1976), 7(1), 10-18  
 CODEN: PSSCBG; ISSN: 0031-613X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Symbiotic N fixation by *R. trifolii* in root nodules of white clover was affected by thiram [137-26-8], oxycarboxin [5259-88-1], and Ethylan CP [9036-19-5], but was unchanged by benomyl [17804-35-2], captan [133-06-2], carbendazim [10605-21-7], carboxin [5234-68-4], dodine acetate [2439-10-3], dimethirimol [5221-53-4], ethirimol [23947-60-6], tridemorph [24602-86-6], triforine [26644-46-2], or thiophanate-methyl [23564-05-8] (all 250-500 ppm). Effects of the **fungicides** on growth, O uptake, and total N by *R. trifolii* were varied, but none of the compds. altered the leghemoglobin content of the root nodules.  
 IT 9036-19-5 23564-05-8  
 RL: BIOL (Biological study)  
 (nitrogen fixation by *Rhizobium trifolii* in symbiosis with white clover in response to)  
 RN 9036-19-5 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

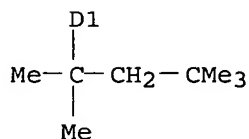
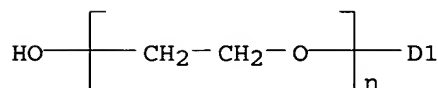


RN 23564-05-8 HCAPLUS  
 CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

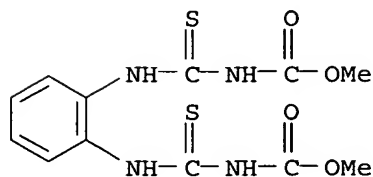


L38 ANSWER 28 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1975:542830 HCAPLUS  
 DOCUMENT NUMBER: 83:142830  
 TITLE: Antisporulant action of **fungicides** against *Podospaera leucotricha* on apple seedlings  
 AUTHOR(S): Szejnberg, Abraham; Byrde, Robert J. W.; Woodcock,

David  
CORPORATE SOURCE: Long Ashton Res. Stn., Univ. Bristol, Bristol, UK  
SOURCE: Pesticide Science (1975), 6(2), 107-11  
CODEN: PSSCBG; ISSN: 0031-613X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Of 14 compds. tested for antsporulant activity against *P. leucotricha* on apple seedlings, benomyl [17804-35-2] (0.025%), thiophanate methyl [23564-05-8] (0.05%), pyrazophos [645-78-3] (0.03%), and O,O-diethyl phthalimidophosphonothioate [5131-24-8] (0.04%) gave complete sporulation suppression for 18 days. The surfactant Ethylan CP [9036-19-5] was transiently antsporulant, and enhanced the antsporulant activity of benomyl.  
IT 9036-19-5  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
(antsporulant activity of, against *Podosphaera leucostricha*)  
RN 9036-19-5 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



IT 23564-05-8  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
(fungistatic activity of, on *Podosphaera leucotricha*, on apple seedlings)  
RN 23564-05-8 HCAPLUS  
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1975:438825 HCAPLUS  
 DOCUMENT NUMBER: 83:38825  
 TITLE: Pesticide compositions, chargeable in small volumes  
 INVENTOR(S): Fulconis, Pierre; Franson, Claude  
 PATENT ASSIGNEE(S): Procida  
 SOURCE: Ger. Offen., 14 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2417056	A1	19741031	DE 1974-2417056	19740408 <--
FR 2225092	A1	19741108	FR 1973-13209	19730412 <--
CA 1036492	A1	19780815	CA 1974-197166	19740409 <--
NL 7404883	A	19741015	NL 1974-4883	19740410 <--
BR 7402907	A0	19741126	BR 1974-2907	19740410 <--
JP 49134845	A2	19741225	JP 1974-40123	19740410 <--
DK 138776	C	19790417	DK 1974-1995	19740410 <--
DK 138776	B	19781030		
BE 813592	A1	19741011	BE 1974-143091	19740411 <--
HU 167357	P	19750927	HU 1974-PO565	19740411 <--
IT 1004235	A	19760710	IT 1974-50352	19740411 <--
GB 1463008	A	19770202	GB 1974-16094	19740411 <--
CH 594357	A	19780113	CH 1974-5081	19740411 <--

PRIORITY APPLN. INFO.: FR 1973-13209 A 19730412

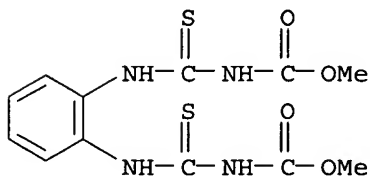
AB Low-volume pesticide formulations are made of powder phase containing the pesticide and inert carriers, and liquid phase containing **surfactant** and water. The phases are kept sep. and are mixed shortly before use. The powder phase contains maneb [12427-38-2] 200, thiophanate methyl [23564-05-8] 100, NH<sub>4</sub> lignosulfonate 20 and CaCO<sub>3</sub> 200 g, and the liquid phase ethylene oxide-nonyl phenol polycondensate 30, mineral oil 350 and water 240 g. The 2 phases are mixed, and applied at 10 l/ha, at a droplet diameter of 100 μ.

IT 23564-05-8

RL: BIOL (Biological study)  
 (low-volume formulation containing)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 30 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1974:11202 HCAPLUS  
 DOCUMENT NUMBER: 80:11202  
 TITLE: Antimicrobial preparations and miticides containing N-[2-(acylamino)phenyl]-N'-acylthiourea  
 INVENTOR(S): Chiyomaru, Isao; Kawada, Seigo; Kitagaki, Tadaharu; Takita, Kiyoshi

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48056827	A2	19730809	JP 1971-91328	19711115 <--
JP 51015097	B4	19760514		

PRIORITY APPLN. INFO.: JP 1971-91328 A 19711115

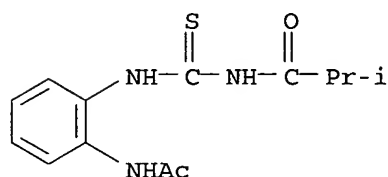
AB Antimicrobial prepsns. and acaricides containing active agents represented by a general structure I where R1 and R2 = alkyl groups are presented. These compds. have no toxic effect on humans. 2'-(3-Isobutyroylthioureido)acetanilide [43068-90-2], diatom earth, talc, and **surfactant** (50, 20, 25, and 5%, resp.) were mixed and powdered. This mixture was diluted with water and sprayed over rice seedlings planted in culture pots. The plants were subsequently sprayed with solns. containing Pyricularia oryzae spores. The number of spots on the leaves which developed due to the inoculation was only 5.6% of the spots found in the untreated controls. In a miticidal test, the 2'-(3-isobutylroylthioureido)acetanilide preparation was diluted with water to make a solution containing 500 ppm of this agent, and bean leaves were immersed into it for 10 sec before inoculation with mites. The mites were exterminated completely within 3 days.

IT 43068-90-2

RL: BIOL (Biological study)  
 (acaricides and **fungicides**)

RN 43068-90-2 HCAPLUS

CN Propanamide, N-[[[2-(acetylamino)phenyl]amino]thioxomethyl]-2-methyl-(9CI) (CA INDEX NAME)



L38 ANSWER 31 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1974:835 HCAPLUS

DOCUMENT NUMBER: 80:835

TITLE: Thioureidobenzene derivatives as miticides and antimicrobial agents

INVENTOR(S): Kawada, Seigo; Chiyamaru, Isao; Tabita, Kiyoshi

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

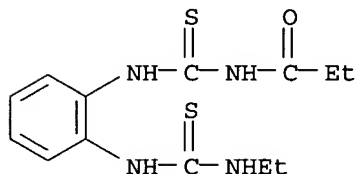
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 48058137 A2 19730815 JP 1971-96406 19711130 <--  
 PRIORITY APPLN. INFO.: JP 1971-96406 A 19711130  
 AB Thioureidobenzene derivs. (I, where R1 and R2 = alkyl and X = O or S) are effective miticides as well as antimicrobial agents, and have no toxic effect on humans and domestic animals. Thus, 1-(3-ethyl-2-thioureido)-2-(3-propionyl-2-thioureido)benzene (II) [43063-92-9], diatomaceous earth, talc, and Solpol (a **surfactant**) (50, 20, 25, and 5%, resp.) were mixed, powderized, and diluted with water to make a solution containing 250 ppm of the active agent. Spraying 30 ml of this solution over 20 rice seedlings cultured in a pot (9 cm in diameter) prevented the development of rice blight and had no toxic effect on the rice itself. At 500 ppm, II applied to the bean leaves infested with Tetranychus telarius destroyed 96% of these mites within 3 days.  
 IT 50280-64-3  
 RL: BIOL (Biological study)  
 (acaricides and **fungicides**)  
 RN 50280-64-3 HCAPLUS  
 CN Propanamide, N-[[[2-[[[(ethylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



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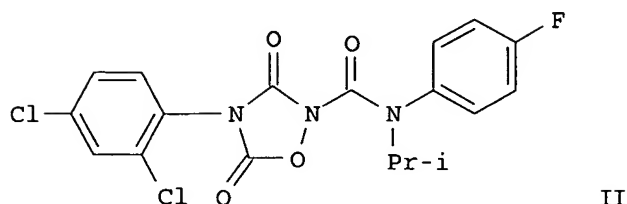
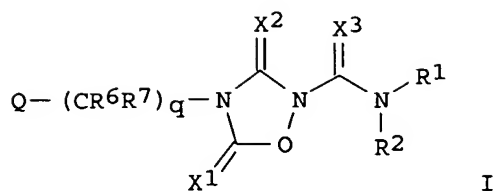
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 L18 13078 SEA FILE=REGISTRY SUB=L11 SSS FUL L14  
 L19 3456 SEA FILE=REGISTRY SUB=L11 SSS FUL L15  
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 L25 1344 SEA FILE=HCAPLUS ABB=ON PLU=ON L24  
 L26 1156 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND PD=<MAY 3, 2002  
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 L28 23 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 (L) L27  
 L29 17 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND L28  
 L30 1043 SEA FILE=REGISTRY ABB=ON PLU=ON SURFACT? OR DILUENT?  
 L31 342901 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR SURFACT? OR DILUENT?  
 L32 25 SEA FILE=HCAPLUS ABB=ON PLU=ON L31 AND L26  
 L33 25 SEA FILE=HCAPLUS ABB=ON PLU=ON L32 NOT L29

L34 56366 SEA FILE=REGISTRY ABB=ON PLU=ON L22 NOT L24  
 L35 9951 SEA FILE=HCAPLUS ABB=ON PLU=ON L34  
 L39 50 SEA FILE=HCAPLUS ABB=ON PLU=ON TSENG C/AU OR TSENG C P/AU OR  
 "TSENG CHI PING"/AU  
 L40 61 SEA FILE=HCAPLUS ABB=ON PLU=ON L39 OR "CHI PING"/AU  
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 L42 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L41 NOT (L29 OR L33)

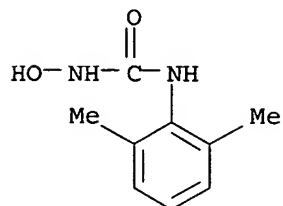
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L42 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:513682 HCAPLUS  
 DOCUMENT NUMBER: 133:135313  
 TITLE: Preparation of herbicidal oxadiazolidinediones  
 INVENTOR(S): Annis, Gary David; Chiang, George Chih-Shu; Forney, David Raymond; Patel, Kanu Maganbhai; Rorer, Morris Padgett; Smith, William Francis, III; Stevenson, Thomas Martin; Sun, King-Mo; **Tseng, Chi-Ping**  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 394 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043377	A1	20000727	WO 2000-US1283	20000120
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2359108	AA	20000727	CA 2000-2359108	20000120
EP 1147096	A1	20011024	EP 2000-913237	20000120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 776425	B2	20040909	AU 2000-34717	20000120
US 6737383	B1	20040518	US 2001-869771	20010629
US 2004063581	A1	20040401	US 2003-634706	20030804
PRIORITY APPLN. INFO.:			US 1999-117210P	P 19990125
			US 1999-138722P	P 19990611
			US 1999-143620P	P 19990713
			US 1999-156362P	P 19990928
			WO 2000-US1283	W 20000120
			US 2001-869771	A3 20010629
OTHER SOURCE(S):		MARPAT 133:135313		
GI				



- AB The title compds. (I) [Q = H, heterocyclyl, (thio)acyl, (thio)carboxy, carbamoyl, alkoxy, amino, sulfamoyl, (un)substituted (cyclo)alkyl, bicycloalkyl, (cyclo)alkenyl, bicycloalkenyl, alkynyl, Ph, or bicycloaryl, etc.; R1 = (un)substituted (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), cycloalkyl, Ph, heterocyclyl, etc.; R2 = (halo)alkyl, cycloalkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), amino, etc.; or R1 and R2 taken together = (CH2)n or (CH2)2O(CH2)2; R6 and R7 = independently H or alkyl; X1 and X2 = independently O or S; X3 = O, S, NH, or N(alkyl); n = 2-5; q = 0-2], their N-oxides, and agriculturally suitable salts were prepared as herbicides. I and compns. containing I were tested extensively for their ability to control undesired vegetation. Thus, II was prepared in a multi-step sequence by reaction of 2,4-dichlorophenylisocyanate with NH2OH•HCl to form the N-hydroxylurea, cycloaddn. with carbonyl diimidazole to give the 1,2,4-oxadiazolidine-3,5-dione, and N-addition of (4-fluorophenyl)propylcarbamoyl chloride (2-step preparation given) in the presence of 4-dimethylaminopyridine. At 125 g/ha in preemergence and postemergence tests, II exhibited 100% control of bedstraw, black grass, morning glory, nutsedge, redroot pigweed, velvet leaf, and other weeds.
- IT **286425-16-9P**, N-(2,6-Dimethylphenyl)-N'-hydroxyurea  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of herbicidal 2-carbamoyl-1,2,4-oxadiazolidine-3,5-diones by cycloaddn. of carbonyldiimidazole with N-hydroxylureas followed by N-addition of carbamoyl chlorides)
- RN 286425-16-9 HCAPLUS
- CN Urea, N-(2,6-dimethylphenyl)-N'-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:713002 HCAPLUS

DOCUMENT NUMBER: 125:328721

TITLE: Preparation of herbicidal heteroaryl-substituted anilides

INVENTOR(S): Petersen, Wallace Christian; Pifferitti, Michael Anthony; Stevenson, Thomas Martin; Tseng, Chi-Ping

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours &amp; Co., USA

SOURCE: PCT Int. Appl., 178 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9631517	A1	19961010	WO 1996-US3803	19960320
W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9654262	A1	19961023	AU 1996-54262	19960320
PRIORITY APPLN. INFO.:			US 1995-416415	A2 19950404
			WO 1996-US3803	W 19960320
OTHER SOURCE(S):		MARPAT 125:328721		
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. [I; Q = II, III, IV; T = O, S; X = a single bond, O, S, (un)substituted NH; Y = O, S, CH:CH, etc.; Z, W = CH, N; V = CH, CMe, N; R1 = C1-5 alkyl, CH2(C3-4 cycloalkyl), C3-6 cycloalkyl, etc.; R2, R3 = H, halo, C1-2 alkyl, etc.; R4 = C1-4 haloalkyl, C1-4 haloalkoxy, CN, etc.; n = 0-1] and their oxides, and agriculturally-suitable salts which are useful for controlling undesired vegetation, were prepared. Thus, treatment of 5-(trifluoromethyl)-4H-1,2,4-triazole-3(2H)-thione with Na in MeOH followed by addition of 1-(2-amino-5-methylphenyl)-2-chloroethanone, cyclization of the resulting intermediate V with concentrated H2SO4 and reaction

of benzamine VI with Me2CHCH2COCl in the presence of Et3N in Et2O afforded I [Q = II; T = O; X = a single bond; Y = S; Z, W = N; R1 = Me2CHCH2; R2 = Me; R3 = H; R4 = CF3] which showed 100% control in preemergence tests carried out on bedstraw, crabgrass, giant foxtail.

IT 183612-48-8P 183612-49-9P 183612-50-2P

183612-51-3P 183612-52-4P 183612-53-5P

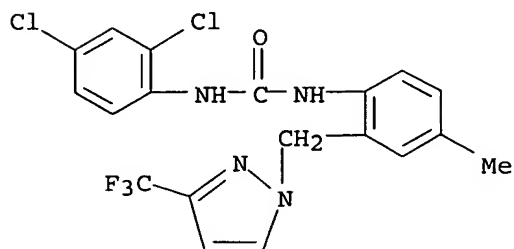
183612-54-6P 183612-55-7P 183612-56-8P

183612-57-9P 183612-58-0P 183612-59-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of herbicidal heteroaryl-substituted anilides)

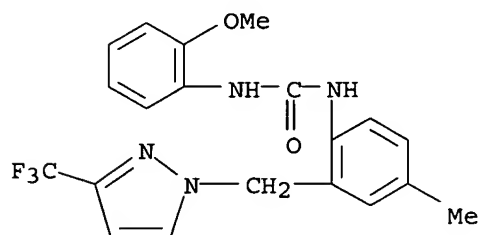
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CN Urea, N-(2,4-dichlorophenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



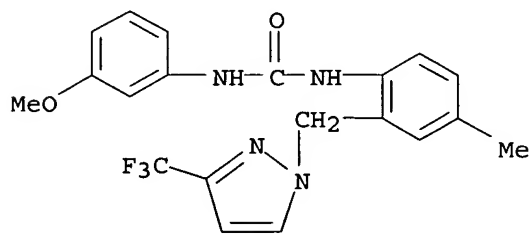
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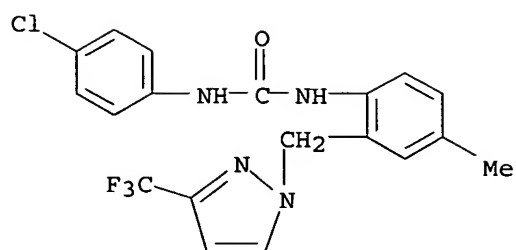
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CN Urea, N-(3-methoxyphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



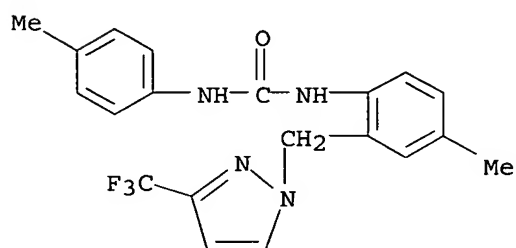
RN 183612-51-3 HCAPLUS

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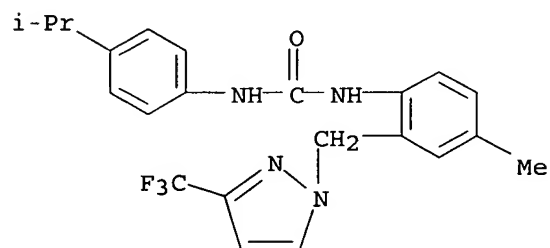
RN 183612-52-4 HCAPLUS

CN Urea, N-(4-methylphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



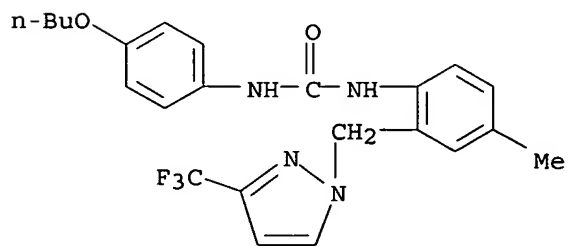
RN 183612-53-5 HCAPLUS

CN Urea, N-[4-(1-methylethyl)phenyl]-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



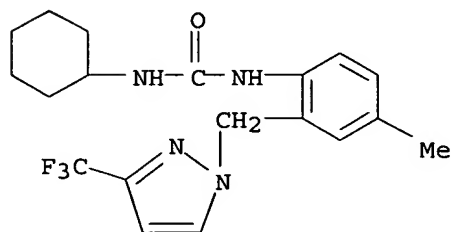
RN 183612-54-6 HCAPLUS

CN Urea, N-(4-butoxyphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



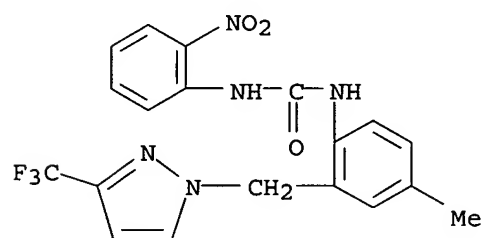
RN 183612-55-7 HCAPLUS

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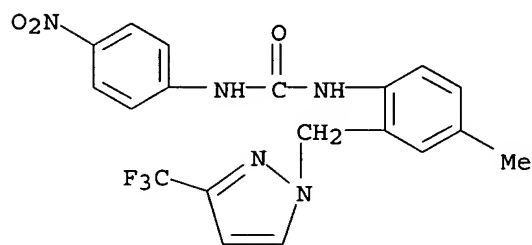
RN 183612-56-8 HCAPLUS

CN Urea, N-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]-N'-(2-nitrophenyl)- (9CI) (CA INDEX NAME)



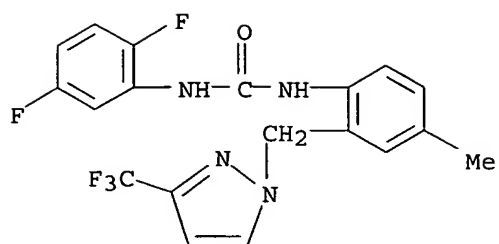
RN 183612-57-9 HCAPLUS

CN Urea, N-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]-N'-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



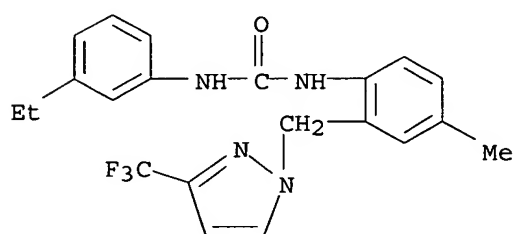
RN 183612-58-0 HCAPLUS

CN Urea, N-(2,5-difluorophenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



RN 183612-59-1 HCAPLUS

CN Urea, N-(3-ethylphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



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